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<210> 31599

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F7

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taaccact aaatgtcttt tcagaacatt cgcctatccc aagatgggtat aatacctaac 240
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cctgtacatg ctcttcaaac ccggctggag cggtagttac tcccagagat gcacataaag 360
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<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G1

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cagcaaggac agcttctcca cgtccaagat ctggatggcg tcggccgccc ggagagagga 180
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cggcgccgac aatgccgtct cgtctctgac agaagagagg ccaccgtcgg tggctatggc 360
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452

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<211> 286

<212> DNA

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<400> 31601

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attaacaagg acagcttctc cacgtccaag atctggatgg cgtcggccgc cggtagagac 180

gaagacggcc gccggcccg cagagacga gccgcgtcgt tccggtggcc ggcgatcgcc 240

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<211> 431

<212> DNA

<213> Zea mays

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atcacacttc catgtgggta gtacttggca gaacacatat acacttccat gttagccacc 180

tgtagcaacc gacataacat aatggccatg cgatcattag cataacatat aactgcacat 240

ggacaaccat gatgagcaca tgaaactgct agacatatgc cctctggaga tgttgatgag 300

accagctgac atcatgcata ctgcatagtt ggcaagatgt aagtacatat agactactcc 360

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<211> 443

<212> DNA

<213> Zea mays

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<400> 31603

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gtggcataat tatgcaaaga gcccaaata gatcaagttg gaagaagctt gcagtctgca 360
ttatacatc actaaatttt cagatttgac atctagacgt gatcgctgtg gatgcaagcc 420
tacgaaagaa gatgttaaga gat 443

<210> 31604

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D5

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gagttatatt tggaaggggtg atagaccatg acataaggta actgctaaca aatttgcaat 120
atatcacaag catcgctctt caatggcaga cactgttcaa ttaagaaggc cagctgctac 180
aattccaat ataaatgctg atattgtgag aacatccact ctgcaatctg catctctacc 240
gaaacaagaa tacttaacaa ttacattcaa gatctatact ttaagaaaac gtgactagag 300
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<210> 31605

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B6

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aaagaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaataaaaaat aaaaaaataa aataagaacc gaaaaaaata caattgcaaa aatgcatata 180
actcataagt tagaaaacaa atatgaacta accactgacg tgaaagaaaa tacaatggaa 240
ata 243

<210> 31606
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-059-Q1-K1-B8
<400> 31606

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agcccgccctt caccatactt ctagaaagcg atgcctacca taccacactg ctgacagtct 180
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tgagctgctg atggtactga tgatgataag aggccaatgc taccctacta cgtaccctcc 300
tctttgtgtg ctgtcattcg tcccgttag acgatcgatg agtgaataac tcagagctct 360
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<211> 435
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<213> Zea mays
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ttgaccgagg ttttcgtctc aagtccactc ctgaagccct gccgattgaa gcagaaaggc 180
tcttcttatt ctttttaggg tatggtatcg gactcgaaac cttcaaagtc gctgctacgt 240
gctctgtggt gcgtctcaga gccctattcc atgtgggggt tggaagacat ttatttgatc 300
ccagagggag gaataattag accttctctt ggggtgagga tacgtagcag tggaagatgc 360

cggtacatta tacgtctact cacttnctaa gcaaaaatca cggccaaact ttctttcttt 420
tcgaaaactg gattc 435

<210> 31608
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C12

<400> 31608

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gcgcatttga ccgagggttt cgtctcaagt cactcctga agccctgccg attgaagcag 180
aaaggctctt cttattcttt ttagggatg gtatcggact cgaaaccttc aaagtcgctg 240
ctacgtgctc tgtgggtgct ctcagagccc tattccatgt ggggggttga agacatttat 300
ttgatcccag aaggaggaat aattagaacc tcctctgggt tgaggatacg tagcaatgga 360
aggatgccgg tcattatacg tctaactaac ttctaagcaa aatcacgggc aaaactttct 420
ttcttttcga aaac 434

<210> 31609
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C3

<400> 31609

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gagtcaaag gagcatgac atgacattgg gaccaccata agggataatg attatgcctc 120
atgcagctac ctggattact ggtgaggctg agcaaggaga ggattctggt gagtcgggag 180
acgatgatga agatgatgat gatgaagacg atgacgaaga tgatgaggat gaagaagacg 240
atgatgatga tgaagaggat catgaggaag aaagcaagcc agcatggaag tcaggatct 299

<210> 31610
<211> 205

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C4

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 ttatgaagat gatgatgatg aatacgatga ccaagatgac tatgatgaaa aagaggatca 180
 tgatgaggca gcgcataatg aggac 205

<210> 31611
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C7

<400> 31611

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 aaataaaaaa aaaaaaaaaa aaaagtaaaa acaaataata aataaacaca caaaactaaa 180
 aaaaaaatca gcacgatcaa aaacaagcaa ctgaacaaaa aacgacaaaa taaaacaaat 240
 gaatca 246

<210> 31612
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D1

<400> 31612

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 atgtatgtgc caatatgatg tgccgttgcc ctgggtccatt catttccctt ttttttgggg 120
 gtgaaataga tgtaaagatc tcgtcttgcc tgccgtactc gcgctgtgtt gggaaaaatt 180
 tggttttt 187

<210> 31613
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D11

<400> 31613

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gcgaacgccc taaccacctt ccgtgcctac agcgagcata cactcacatt gctatcttga 180
attcttactc aaaggcctac aaccataact cgtcacactc gatcatctac ccaatctcca 240
atcaaccctt cgccttttcc aattttttta aacaacttta cccatacgac taggtataaa 300
cactaacaca gcgcggtcat cagactgaca aaaccaaacc ctactaccac attccaaacc 360
cactcgaact tcccaacatc atagtgtaca ttacatcaca cttcaaaaat cac 413
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<210> 31614
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D12

<400> 31614

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attggaggct accagtctct cgagggttgg aacatggtga aaaaccagag cctaaccgta 180
caagctcatg aaggtctaata tgcggcgctg gcgcagtcac cagtcacagg gatgatagct 240
tctgctagcc atgacaactc tgtcaagggtg tggaaatagc agtaacaacg attatgatgc 300
acctaggtag ctttttttcc aaggcaagtg aaatttctcc tgctgaagca taaaataagg 360
aagagtagta aattagatgg ttgccggctg cggttcagct gtccaagagc agtgagtttg 420
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<210> 31615
 <211> 454
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 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-D2

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ggctcgggaa agggatcccc cgaatattgg gtagccgttg ttaaaccagg tcgaatactt 180
tatgaaatga gcggagtatc cgaaactgta gctagagcag ctatctctat agctgccagt 240
aaaatgcca tacgaagtca atttcttcga ttagagatat agaaccctaa aaaggaatat 300
tgaagataaa aaaccctgg ttttctttc tggaaagaca atatttcttt catccttttg 360
cattgaaata acaaattggaa atccaaataa tatgattcaa cctcagacct ttttaaattgt 420
agcagataac agtggagctc gaaaatngat gtgt 454

<210> 31616
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D3

<400> 31616

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
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tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggc agctgcgggt 360
acggtggtgg ccgt 374

<210> 31617
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D4

<400> 31617

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agaggctacgg gggtcatccga tcgagaagcc ggctctaat gtcacctacc gctaattcat 120

tggccgcctc tccataacca cggaccacca ctaactctac aactccctaa gtaactaccg 180

ttacgtccta tactccaata tcactctgga tcagtagaca caaagcccc tcagatcccc 240

cttctaacc ttctccacgg atgaagcgat actgaacgcc atccatggca tgaacagcaa 300

ggcactagac tgccgcaaca tca 323

<210> 31618

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B5

<400> 31618

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cggcatcgtc ggggtatggtg gaaccgggca aactacattt gcgaaaaggc atctcactgg 180

aaagtttgag aagaaatatg aaccaaccat tgggtgtggaa gttcatccga tggatttcac 240

cactaactgt ggtaagatca agttctactg ctgggatacc gcacggcaag agacgtttgg 300

tggactcagg gatggatact atatccatgg ccagtggtgcg atcatcatgt ttgatgtaac 360

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agacattc 428

<210> 31619

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H8

<400> 31619

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ccccacccac gggcgagcac ttccccagc gcaccccat ctctccctc agcaacctct 180
gatgcacagg ttcccgccacc gtactcaact acgaccaccc ctaccccatc accagcgtct 240
cacacgctta tcatcaatat ca 262

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<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-H9

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tccgccgtgc cgtccccgc tcctcgtggg ccgtctgggc ccaattggcc gcggccgcgc 180
gtccccgacc aggcgcgaat ccccccccc cgccccggtt aacctggaat tccttttctt 240
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gtttaaataa attatagggc aaaaaataa taagggtataa taattggcac accccagtaa 360
gtcaccatga ttgatgtatt gttcttattt gtgcttggtta gcggaagagg gatcagatcc 420
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<210> 31621
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A1

<400> 31621

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ggaacctcat gggtacgat ccgtcgcac acgtcgccac cgcctccagg gaggagctga 180
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gcaaagcgaa aggaattacc aagcgcaaaa tgaacaaacg tgagtgggat gagcaaactc 420
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<210> 31622
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 31622

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atgacaaaagc tattttctaata gaacaagaga ctggtgttcc tgataaagat gagaaaactg 180
ttgagataaa aaatcataaa aatgtgacta atataagaac aagtgtcacc aaagagaatg 240
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ctacaaaaaa aattgatggc tctcacagca ctgaaacaaa tataagtggc aaagaagagc 360
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<210> 31623
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A11

<400> 31623

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 180
agaaaatcaa aaaaaaacca aagaaaaacc aaataagaaa aaaaaagaat acaccaaaaa 240
tatcagaaca caaaaataaa aaaaaaagac aaacacgaaa aaacacaatg gaaccataaa 300
aaaaacaaag aaagacaaaa ggaaagatac ccataaaaaa aacacataaa aacaaaaa 357

<210> 31624

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A12

 <400> 31624

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 aaaaaggaag gtttaaaaaa aaaaaagggc gccccaaaaa aaaaaccaa acaaaaaaaaa 120
 acaaacatac aacaaaaaaaa aaacgccaac cgttcaacat aacccaaatt tactgaccct 180
 tccatcccaa ctaaaaccac tgctaaaacc ccacctaaac ccaactaaat ggccttgcat 240
 aaaaaacccc taaaccaga aaaccctaca gctaaccaac ccaaacccc 289

<210> 31625
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A2

 <400> 31625

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 gctgttgaag tctctatggg tgatgtcgag ccatctcaa cgcacgggtg tccaaaagt 180
 atgtctagcc cacgtgtaac aacaagaagc atgtcttctg cttatgcaac tagtccatgt 240
 cctacaacaa ggacgaaggc atccatctca ccaggaggaa ttaatccgag gctcattatt 300
 agctagatat agtagttgtc attctctatc ttgcgtgtcg gcatggctgt gcaactattt 360
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 attgcatgaa ctcatt 436

<210> 31626
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-A5

 <400> 31626

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 attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180
 aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240
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 caggagttag ttatgcttcc tttgcaaagg cctgagttgc tctccaaagg acaacttatg 360
 aagccatgta aagggatatt gcttttttggc ccacctggca ccggttagac ca 412

<210> 31627

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A6

<400> 31627

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 tgtgcgagat cgagggccac cacctgagct ctgccgccat agtcggccac gacggcgccg 180
 tttgggcccc gagcacgcga ttcccacagt tcaagccaga ggagatgacc aacatcatta 240
 aggacttcga cgagcctggg tttctggccc cgatcggcct cttccttggc cccaccaagt 300
 acatgggtcat ccaaggcgag cccggcgctg tcatccgcgg gaagaaggga tctggaggca 360
 taactgtgaa gaagaccgga caggcgctgg tgatcggcat ctacgacgag cccatgaccc 420
 ctggacagtg caacatggtg g 441

<210> 31628

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A8

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ctcatgtgct acatctaacc ccatcaactt agctcttccc acatagacaa ccacgacagc 180
accgattgag cccaaaacac cgaattttcca caattcaagc catacgagat aaccaacatc 240
atta 244

<210> 31629
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-A9

<400> 31629

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ctaatagaaca agagactggg gttcctgata aagatgagaa aactgtcgag ataaaaactc 120
ataaaaaactg gactaatata agaacaagtg tcaccaaaga gaatggaagc cataaacgtg 180
aatgcaataa gccagccaaa gcatctcaag aaaaataaga ataatgctac caaagaaatt 240
gatcgctctg agagcagtg aacatataga ggtgggaaag aagagcattg ccaacaaacc 300
aagaaaatg 309

<210> 31630
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B1

<400> 31630

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ttactcaagt aacggggcct agtacgatcc atctagcaat acattgcaga aactagagcc 120
taaaagaacc aacacaaaaa actgcgcttt caccacggca tcctacgagc tgcacgaaca 180
cgacagaagc catatacaca caactctctg tgatcacata atcgctagac tcaactcgta 240
ctacgtaatg aaaggaataa ctagtggcct aaaaacagg ccacttacta tcaagactca 300
ccaaact 307

<210> 31631
<211> 417
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B11

<400> 31631

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gctgctctcg gtcagtgcc aacctcgagtt cggtttctac aacaagacgt gcccagcgc 120

cgagaccatc gtgcagcaga ccgtggccgc cgcgttcacc aacaactccg gcgtcgctcc 180

ggcgctcctg cgcattgact tgcattgact cttcgtcaga ggctgcgacg gctcgggtgct 240

gatcgactcc acggccaaca acaaggcggg gaaggactcg atccccaaca gcccagcct 300

gaggttcttc gacgtggtgg accgcgcca ggcgtccctg gaggcgcggt gcccggcgt 360

ggtgtcctgc gccgacatgc tcgccttcgc ggccagggac agcgtcgtgc tcaccgg 417

<210> 31632

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B2

<400> 31632

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<210> 31633

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-H7

<400> 31633

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ccccacccc gccgcagtac ttccgcagt acatgcccc gccgtacccc tgcaaccct 180

gcggcggcgg ctaccgcatc gtctgcgagg aggaccctc ctaccgctgc gccatcatgt 240

gattcgctta ttatcaatat catcccttga tgagtgtacc gtacgtgtgc gtaccatggc 300

cttaattacc attataccca accncaccct aaaaaaac ccagtatgtc gtctcatcat 360

cattccgtac ctctctctgt ataatcgccg tacagattca tcatatatat actctataca 420
tatatagcat catgtaaaa 439

<210> 31634
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-059-Q1-K1-B3

<400> 31634

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agggcaggaa taggactatg cttgacataa ttacgcttag agatactcat ccattgatca 120
ctcagattat ctctctgtat cagaactatt accatctatc aagaacagac ccttatgtta 180
ttcccattga gcctgctgct agtggtggaa tgaatggatt cctatgttta tctgaaagga 240
actggtatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gctcagaaca 300
gagttttgaa tgctgcctat ctcaatcctc agtatcacia acacatccca gagccttcag 360
cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttctgtgt 420
tgtggcatca aagatatagt cgtcg 445

<210> 31635
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F5

<400> 31635

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tggacaagtt ttggacatta ttgctgctgt gagatgtagt gctaggcaac agatgggtctg 120
gttgggtgat catggattcc atggcattga gaagcttgca aggctagatt gattgtgttc 180
tgccggggta aatcttgcgt ggcgttttga acgtggattg gtaaacagaa taccatcttt 240
tgaacgtcgg tagttccatg tccacagctg atggtggtgg cctcgaatgt cgtactgtac 300
gtacatgtcg atgattccgt ctcatgatcc tactactact atatccctgt tctatgtaag 360

atatgtgtac tccaattcag acaggatatg gacagctcac gattttttta tattgttcta 420
cacatacatt ttt 433

<210> 31636
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F6

<400> 31636

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agtatttggg cagaagcccg caggaggcat taagttcaac ctacagttcc cccaactacc 180
aactaatatt ggtagcaga cttctccctg tgatcgcaaa aatattccct gatcctctta 240
tggggggcta gctagctgct tcccacccat gacccttcat tgacagtagt ttacaaccag 300
catcaactct gaaaaaatgg gtgacccatc gccttccatc ttataaatag tgcacgatca 360
ggtacagc 368

<210> 31637
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F7

<400> 31637

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cattttctat gaggaatatg cctctaattt aaccaactac caattcttat cacatatgag 120
tatttgttca taatccctca agatgcatta atttcactct acatttcctc caactaccaa 180
ctaatttggg ttatcatact tc 202

<210> 31638
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F8

<400> 31638

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acaacaaaat ctttagaaat cacattttta gtttaggaact tctatggatt ttattcttct 180

tcttttcttt ggatccaaaa tagaagaata aaagaatagg tataagaatt aagttaagtc 240

gatccaaaaa ggaaaggagg ttcatggcca agggcaaaga tgttagaatc cgagttattt 300

tggaatgtat tagttgtgtt cgaaagggtt ccaataagga atcgacgggg atttctagat 360

atagtactca aaagaatcgc cacaatacgc ccggacaatt agaattaaga aaaatttgtc 420

gttattgtcg caag 434

<210> 31639

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G1

<400> 31639

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gggatatgaa aaaataaaaa aaaaaatata aaaaatatta aacttcataa aattttcaat 120

caagtctaag tgctttcaaa tgtcttcacc atagtttact actt 164

<210> 31640

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G10

<400> 31640

aaaagtcaac agattcagag acctgagatg cgcaaggaag ctgacaaaagc ggggggcccgt 60

ggcaaaccga aaccggtgga cgaccctgat cttctgagaa aaggttcaag ttgaagcacg 120

cactgtgggc acccgtttga tggatgaacta tgcttgatcg gctcgaagcc agacgaaact 180

cttgtggagg ctcaaagaaa ttctgacgtg cagatcgctc gtttaacttg ggtatacggg 240

caaatgacta atcgaaccat gtaatatctg gttgcctccg aagattcact cacgatagct 300

ggagccttca

310

<210> 31641

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G11

<400> 31641

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catgggtacg gagcgatcgt ccacctgcc a gatggaaggc ggcgtgatac ctgacgcaga 120

gatcctgcag aggctgcagg gatggacgag cttcagcagg gagctccctg ggatggtgct 180

ggagatcgag aggtcggat tcaaggagct ggtggacgag gtggtgcatg gggagtctgc 240

cgacggcccg gagatgaagg cggcaggcag gcggagaagg cggcggctct ttgcttgata 300

tggtttgtgt gaccatcacc atgcaccggg tgggttgctc aagtagatgg gcctgatcat 360

gctgtaactt tgattgccgt atgaactttt tttctctctc aaggagagg tgacaaagtt 420

gtactgttgt ag 432

<210> 31642

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G2

<400> 31642

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tctgcggcat cattgggcat ggggttctgc aaatagggtta aactatgctc taacatacac 120

tgtattttgc gagta 135

<210> 31643

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G4

<400> 31643

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 gtgcaggcct tcacgtgtgt ttgcctctct acctaaagaa taaatcaagc tagcagcaaa 120
 cctaccttcg gcgtgtgtct acttgcttat catagtgtgt gtccgtgtat gagagatgat 180
 gtactgtcac gaactcacgt gtgtatgaga gaggatacat ggtaagacta tcactact 238

<210> 31644
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G7

<400> 31644

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 gagttattaa gctaccataa actatgtgaa aaacagtgtt ttcaactatg gtacattctg 180
 catgcgaagt atctagcatg ctgatcaaaa gaatcattaa ccatagggac caaaaatggg 240
 tgaatttatt tctccagtag gttatctcta aagcataaat gtttaggtac aaatttaagc 300
 aaaaaaaggg tgaatgaagg ttactgcca acatgaccaa tgaaaatcga aggatctctg 360
 aattactgtt gaagaccaag ggaaggatg ctttcagtca atcagggtatg acaaatga 418

<210> 31645
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G8

<400> 31645

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 gaggcggcta cggcagtggg agtggtagag caccaggagg cggatatcat ggcgggtggtg 180
 gtgcacaacg ctacgctggg cagaactagc aagaacaacc ccttatgcta gtttatgtta 240
 aataaacgat ccattgttca tgtgactgag caatttaagc agtgaaggat cttgactcgt 300
 gttatttggtg ttaccatatg tattggttgt tctatgttta agatgaatgt acaccgctat 360

ttgtatgtcg aactcgttgc atggagatg

389

<210> 31646
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H1

<400> 31646

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aattgggttc catgctggcg ggtgctctgc tcgttgcata cgacgtttgc gtacattcct 120
acaaccgtgc actccatcgt cgtctgctac atgcacgctg ggcaacaacc tgc 173

<210> 31647
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H10

<400> 31647

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ggggcgcagc tccacctcat cgaccccgac cgcagcgtcg acctcggcgc tggcacgctc 120
tccatcgtgc gcctccgcca gggggaccac tccgtcgccg tcctcgcgcg cctgateccac 180
gagaagtccc accgccgccc cggcctcttc cgcttggtca gcagcgggcg gtctgacgct 240
ggcgccgagc aggagcccgt ccagtggccg ctggcccgcg atgtcgcggc ggtcaagctc 300
gaccccgcg cactacttct ctcgtccat gtccacaca cggaccaccc ggacgacaag 360
gatgacgcgg acggtgccga agcggacgcg gaggtgcgc tgagctac 408

<210> 31648
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-H11

<400> 31648

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gggcttcgtg ggtgagcggg tgcgatggc ggcgtctgat gttgagtacc gctgcttcgt 120
 cggcggcctg ccctgggcca cggacgacca ctccctccac aacgccttga gcacctacgg 180
 cgaggctcta gagtccaaga tcattctcga tcgggagacg cagaggctcc gctgattctg 240
 ctctgtcacc ttctccacgg aagaggccat gcggaacgcc atcgagggca tgaacggtaa 300
 ggagctggac ggacgcaaca tcac 324

<210> 31649
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-058-Q1-K1-H12

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 gaagaagtca gctgctgcaa aggggtaccac tgtaactggc actgatgctg atctccgcag 120
 attgagcatg gatgcagccc gtgagttgct gctaaaattt ggcgtacctg aagagcaaat 180
 tgataaatta acaaggtggc atcggatcgc tatggtgagg aagctttcaa gtgagcaagc 240
 tgcacgga attactatcg atgaaattcc tgtagtaag tttgcacgtg gacaaaggat 300
 gtcttttctg caacttcagc agcaaaactag ggagaaatgt caggaaattt gggacagaca 360
 agttcagtca ctttcagctn tagatgggtga tgacaatgcc agtgacacag aagctcacag 420
 tgatctagac tcatttgctg gggatct 447

<210> 31650
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F2

<400> 31650
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 agaaaaagta aaaa 74

<210> 31651
 <211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H2

 <400> 31651

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 cggggcaaca acctggatcat cgccgacccg ctcacccaca ccagcgaccc ctacgtcgctc 180
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 tttgatgaag acaagttcac agcagacgac agcatgggtg ttgctgagat caacattact 360
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 acgatctacc ct 432

<210> 31652
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H3

 <400> 31652

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 cgaacatggt taaatccaac atgtgaatca tttaactata ttataatgtc aattaaattc 120
 caataaaatg gtccaatttt tactatttta 150

<210> 31653
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-H6

 <400> 31653

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 cttctcggag tggaatgcc ctaagccaat gcacccctct cttttgaatg aggccttgcg 180

atggacagtt acggccaaaa gaaagatcta tggtcaccct tgccatatca ggggtggaaa 240
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atttcttgat ggtggattga accaacaaag aatggggata tgtgatgcca ttgcagttgc 360
aaagattctt aatgctactc ttgtgatccc aca 393

<210> 31654
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D3

<400> 31654

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caggtctaac agggcaagga acccatcgaa cggcagcaca gcctcacacg cacctgccaa 180
acatacaaac gccagcacct tctcgtttgg agatgccaac actgacagca cgccaaagac 240
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agacgctccg ccagcttctg cagagaagca tctgagcacc gcgaagctga aggagatcac 360
tggaagcaac acttttgcag atgggaaaga accaatccgc gagcgtgtgg g 411

<210> 31655
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D4

<400> 31655

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gttattctcc ccctgtctta tgctgaggct tgtaaagttt tgaaagttcc aagtgtatag 180
ctgtactgtt tgtgttgctg agtaaaataa aaaagtacac aatcaaatat catctaaata 240
atactcagaa aattaacctg ctatga 266

<210> 31656
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-D5

 <400> 31656

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 ggacaaaaca aagcggcgtg gctcgcacgc aatctgtcgt agcagtctcc gtggtgggcg 120
 tagcgctgct gctggcaccg gcggcgacaa cctcggatgc cggcctcacc tgaagactct 180
 cgagctccgg catatcgccc t 201

<210> 31657
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-D7

 <400> 31657

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 ccggtgctgc ttctggcacc gcggcgacg accttgagg cgcctcac ctgcgggcag 180
 gtgagctccg ccattgcgcc ctgcctcttc tacacccgcg gcacggggtc cggacccttc 240
 gcgttctgct gtagcggcgt caggaaccct ctgagcgc 278

<210> 31658
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E1

 <400> 31658

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 ttaatctctt tcatatgttg aaattgactt gtacttacta acactcttgg ctgacttaca 180
 tatacatgag ctgagctata gatctctgcc ttattacac atcctcaact gagtactaat 240

ccattctcat tctactatat tggccttatt aactatatta ccacttcttt accatcttta 300
 acaaagacct ccactttt 318

<210> 31659
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E10

<400> 31659

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 tcacctatct cagactcagc ctcaaggcaa atgcccgaac acgcagcaga agagccgtcg 240
 gtctcttcat cctcaatctc cagcaggttc acagttgctg gctgtggcgg tgacagctct 300
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 acctcttcca gttcgggtgtt cctatccat 389

<210> 31660
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E11

<400> 31660

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 ggccgccgtg agacagagac cgaagggggg gttgaccggt gctccggagg aagatgttta 120
 gcgggacgca gcagaagtgc aaggtgtgca ccaagacggt gtacccgatg gaccagctct 180
 ccaccgacgg cgtcgtcttc caccgctcct gttcaagtg ccagcactgc aagtctaccc 240
 tctcactgag caactattcc tcgttcgaag gagtgccgta ctgcaagacc catttcgagc 300
 agctgttcaa ggagaccggg agttacaaca agagcttcca atcacagtca cctgcaaaga 360
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<210> 31661
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-058-Q1-K1-E12

<400> 31661

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aggatatgac aatgactcct cctggcccg c gaccgggtgaa ggatgcatat tgccttctga 180
actttgggtga cagtatcaca actgatcaca tctcgccctgc cggaaacatt caccagaca 240
gcgagcgtgc aacatatctg aaggagcgtg gtgttgaaag gaaggacttc aatcatatg 300
gtagccgaag aggaaatgat gagatcatgg ctaggggaac ctttgccaac attcgtcttg 360
tgaataagtt cttgaagggt gaggttggac ccaagacaat ccatgttcca tctgngaga 420
agc 423
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<210> 31662
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E2

<400> 31662

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gtcgccgcgg tggcgccgtt cgaccggtgc tacgactcca ccaagctccc gcagagtctg 180
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ctcgggcgca actccatggt gcaggtgaac gccaacacgg cttgcctcgg ctctgtccag 300
gcgcgggggc aagcgccggc ggccgtcatc ggtgggttcc agctggagaa ccacctgctg 360
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 <400> 31663

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 caattgggta gagagggtga cgataagtca tgtctggaag cccacttccc agccaaggag 180
 agttagtgct gatgctaagc cacatacaag gaaggccagc tatgcaatgg aaacagagtc 240
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 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E4

 <400> 31664

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 cctggtccca atttatectc actctgcatt ctatatgata cagtccttat caaccattat 180
 tatgactcaa cccaactatc ctaaacttat attcactcct acaaccctat taattacgat 240
 acaaatcaca tcttccataa catcacctat atacgcacta 280

<210> 31665
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-E6

 <400> 31665

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ccgccttccc acggacactc ttggccttgc cctttctctc ccttgtttgc tacctcgttc 180
 ccgccccgc ctgtgcttcg ccgcacgtca tgccagggcc gtcgcccga gggcttcctc 240
 atcctctgca tcaccggact cttcattcgg ttgcgggatg gaggagtccg tcaagaagac 300
 gggggccgac aaccccgttg tcctctactc caagtcattg tgctcatatt gcatggaagt 360
 gaaggcgctc ttcaagcgga tcggtgtgca gccccatgtt atcgagcttg accatct 417

<210> 31666
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E7

<400> 31666

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 gacgacatat gggttcgata tactcttata ttcaacgaat gggcccgctt tcaatgcagg 180
 tcgaaacata tggttgcccg gatggttgaa tgctgttaat gagaatagta attcgctttt 240
 cttaacaata ggacctgggg atttcttggg tcctcatgct attgctctag gtttgcatac 300
 aactacattg attttagtaa aggggtgctt agatgcacgc ggttccaaat taatgccgga 360
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<210> 31667
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-E8

<400> 31667

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 gatagggggc ttataggggt ttatcatgac tgggtgtgaac cattctcaac gtatcctcgt 180
 acctatgac ttattcatgc tgatgcaatt gactccttga taagtggccc gatttcaggc 240

actagcagat gtgacctgtt tgatgtcatg ttggagatgg atcgcatact gcgcccagaa 300
ggaactgccg ttatacgggc ctgccagac gtagtagcca aggcagcaca gatcgctcag 360
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<210> 31668
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F1

<400> 31668

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acacaccact atgattgatg gtttgggtgt tgctggctgg ggggttggcg gtgtagaacc 180
caaggc 186

<210> 31669
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F11

<400> 31669

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cggaaaaaaa tcattggctt atcaaattct ctatcgagcc gtgaaaaaga ttcaacaaaa 240
gacagaaaca aatccactat tggttttacg tcaagcaata cgtagagtaa ctccaatat 300
aggagtaaaa acaagacgta ataaaaaagg atcgacgcgg aaagttccga ttgaaatagg 360
atctaaacaa ggaagagcac ttgccattcg ttggttatta gaagcatccc aaaagcgtcc 420
gggtcgaaat atggctttca aattaag 447

<210> 31670
<211> 312
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D2

<400> 31670

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gaccggcgcc acacgggcgt catgggcctc ttctacatcc tcgtggccga ccacgcccgg 180
cagctgccgc cgcaggaggg cctgtgcttc agctttccgg tcccatgggtg cctaccgtca 240
tggctgtcga gcaacctgtg agatcttttg gtgttgaaag ctggtgctat gttctaatta 300
gctgcttggt ta 312

<210> 31671

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-F12

<400> 31671

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accacatact catatccaat ttttcataat caactactta acatgctaata taaccatatt 180
atgaaatact aacttttaata cattcatctt attaaatact ataccatata cataattata 240
ttcaacataa gacacattca aatacctcta 270

<210> 31672

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A9

<400> 31672

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gaccaccgtc gccaggttcc ggcgcgcac ggcgacgtgc agggccagca gcggcggtgg 180

cggtggccgg ggccggcgaat atgatggcct cctttggctg ccccgccggg acgtgatgct 240
 caacggcctg tccagtgtcg ccgccgggct cgccctggtag ccgggcgtcg cgtccggcgc 300
 ggatgcggtg tgcaccaggg ccgacaaggt gaacgagaag accgtgcagt gcacggaccc 360
 ggccgggcag cttccgtgcc ctctgggtgc gccgacggac cccgtggact tcaagccgga 420
 aagcaaggtg acgcgcattc ggcagc 446

<210> 31673
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-B1
 <400> 31673

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 ccaactccact ccgacgact cgccctgagat tctcgcaggg actagtttgt ggccggaatct 180
 caaaccagg aacctgtgaa tctcgcacac ttgcgaaaca tgagaagggt ctttttcttc 240
 ggggtccctg ctgcaaacgc tgggtgagggt gccgggcaac cggatcaatga tagcaggact 300
 ggacatagaa agacagatga gggaaaggac atctccaccg cgagattgtc gagatccaga 360
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<210> 31674
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-B11
 <400> 31674

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 agatggcggg ggcggccgaa gcggacacgc cgtcgcagga gccggtgcgc acgggcccga 180
 gcaacacat cctgctcccc atcggcggca tctcctggc ctacctgtc taccgcttcc 240
 tccgcccgcg cctccgcggc ctgcgcctcg acctgccgc ctggtgcgc tgccgcgcgc 300

cgccgaccgg cgggggccc gtgctgccct atttcgcgcc catcgccgac cgctcggcg 360
 ccgtcgcgct gccgtacctc ggcgcttcg ccggcccgca ggcggcgctc ctcaggttcc 420
 ccggcgggga ggcgctgtcg gtggc 445

<210> 31675
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-B12
 <400> 31675

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaataa aaaaagggtg gcccttttta 180
 aaaattcaat gtttattatc ctacaaatct catgtcatta tttttttttt agtttaccta 240
 aattaaatt ctttggcctc tttttaaatt attccttttt gtaaaaacct ttatgtgccc 300
 aaatttatcg cttttctaaa aaatccccct ttttcaatgg tgattattac taaaaatgcc 360
 cctccgaatt aactttccaa a 381

<210> 31676
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-B4
 <400> 31676

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 aatttttact agaactaccg gatttcctgt acattattgc tgctgttatt attcggacca 180
 cactagccta ctaaaaagga acatttccaa taatgtaatc ttgcgcacct tt 232

<210> 31677
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B5

<400> 31677

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa 120
aaaaaaaaaa attaaaaact ataaattttt t 151

<210> 31678

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B7

<400> 31678

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tgtcattggg ggacctcacg gcgatgctgg cctcactggc cgcaagatca tcattgacac 180
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tgaccgcagc ggagcctatg tcgcaaggca ggotgccaaag agcatcgctg ccagcggcct 300
tgctcgccgc gccatcgctc aggtgtctta cgccatcggc gtgcccagac ctctctccgt 360
gttcgtcgac acgtacggca ccggcgcgat cccctgacag gagatcctta agattgtcaa 420
ggagaacttt gatt 434

<210> 31679

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-B8

<400> 31679

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tatcaggaaa tccgtttgct tcatgttatg caggctcaga tctgattgct ggattcggca 180
tcttacgggc ttgaatagag ctaggactgg gagaaaacaa caaaccgcg ttggatcctg 240

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 ggttcggagc ggatctgagg cgacgatggc tggaaagcggc gggatctctt ggtctgcagt 420
 cctgcttcac ctc 433

<210> 31680

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C12

<400> 31680

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 gcaaggattg cacctacctg agcactccag caatgaagat ccctgaaacc atgcaaaata 180
 tccatgcctg cgagaactgg ctgccaagac ggggtgatgag cgctggcgcc atcggcgggg 240
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 agaaagcatg gtcagctgct attaggcacg gattcgttcc tttagacgaaa gcctgaaagc 360
 ctgtacgcaa ctctagacgc cattcgacga tggctggaaa actacgtttc agcaatcggc 420
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<210> 31681

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C3

<400> 31681

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 atggttgtgt gggctgtgct gtgaggcggc cagagatgaa gcatgcagga ggaaggctca 180
 ccatggagta gaggaggctg tgagggtca catggcggtc tgcaacatgt tcaagttgaa 240
 cccgcgcgtc cgcgtggccg acggcatgcg ccagatgctc cggaggcggc ccggtgatat 300

gtcaaagcca gaatcgggca agaagtaga atcatcagt acactgtatt gaagagtt 358

<210> 31682

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C7

<400> 31682

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tcaggtcaca cgtcaatggt cttaaataatg ctgttctaca acacattagc gtcaccaagc 180

cagaaatgct tctgtctgcc ttgactcggt tcatgtcact gtcactgtgt cgcctagagg 240

atcgtgttat tgaaactgtc actga 265

<210> 31683

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-C8

<400> 31683

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gccgtcgtgc cgggctccgg cgccgggaag acgcggaaag tgaagctctc cctgtgcac 180

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ccgcgcacaa atgctaagat cagcgtcaac gctcgcccca ccatcaagaa tcggaactag 300

gagctagctg ctactagtgc tcatcaagca cactgtacgt acgtacgtat gtactcgatc 360

gcgtgggtcat tcatcgacca tcatcgnnta tatgctgtca cgcacagtgc gggacggcca 420

gtgttgcat at 432

<210> 31684

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-C9

<400> 31684

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ggatcggccc ggctaggcct ggcccttgag ccaaaaggag gggcggttcc cctcttccga 180
cccacggaat atttaaaata acgtttaaag tattgtgtat ttacttgctc ccggaggctc 240
ctacttattc tacacctttc atgtctatat cacaaa 276

<210> 31685

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D1

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tggtggcatg gttacgcgca ccgtccgtat gcgtaacgga tcttgctggt ccggcgatcg 180
ggtcagggcg tgtacagctg tcgcccgtgc ccgtggacaa agcccgtggg tgctaagcac 240
acacggcaga cgaacttgcg cggactgtat ccgcgcgcct gttgcgagcc cctcggagca 300
ctgcgctgca acaggctgct agc 323

<210> 31686

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-058-Q1-K1-D10

<400> 31686

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caccttgag cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180

cgtcacggt ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240
cacgtccatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300
ggagaaaagg aaaaagagcg catgactgct gtgaataata ttatcaggac cttcctcgga 360
cacaacatcg tcgacaatca cgacctactt ctatacnct tgtttgtttc atcttgagtc 420
agtcg 425

<210> 31687
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A8

<400> 31687

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tttccacacc aaacacacat taaaccatgc attcaactcca ctactccaga ttaatctttc 180
acacatgctc taaaacatac ttacttgcac tccgcccac ctacattatt cttttctctt 240
aatactctc tatccatcta ttatctactt ccttcaacc ttttcataac aaccttttta 300
catcacaaaa actcaatcct attaatccaa tcattataca caataccttc actacaacta 360
ctaactctatt attacactaa taatat 386

<210> 31688
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D11

<400> 31688

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atgctgagcc accgcgcgca cagcgggtgc caggggcct tctacaccta cgacgccttc 180
atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca gacgcgcagg 240
cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccgttg atgggcgact 300

gctccgcatg gaccgtttgc ctggggatag tgccgggtga aggaacagaa acagacggac 360
ccaccctact atggacgagg acccatacag ctaactcata agtacaacta caggctcgcc 420
gggcaagcgc tgaacctgaa cct 443

<210> 31689
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D12

<400> 31689

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catggagagc gtcgtgaaga acatcatcct agaagaaggt gcggagaggg caaaagtcgg 180
cctgatgggtg atgcctgggtt tcctgatcgg gaccagcgtc atacagtccc gtgtgtacct 240
ttc 243

<210> 31690
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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aagccgaccc cgccgacgta cacccttctt cccaagcctc cgacgcccac gccgaccccg 180
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acgtacaccc ctcccccaaa gcctncgacg cccaagccga cccaccgac gtacaccct 300
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ccggccacca agccgtccac ctacactccg 390

<210> 31691
<211> 345

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G7

<400> 31691

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 tctgacccaa tggctcagcc aatggcaccg cgaactgcct aacgaacgtc ctaacgtgcg 120
 tcgagcagag ccgccagctg atacctcgga tgctgactta gatgctgaca gacatgatcc 180
 gacacacagt agcttacacc cactgtcttt gcaactaagt gcgatgacca actctatgac 240
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<210> 31692
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H10

<400> 31692

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<210> 31693
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-057-Q1-K1-H11

<400> 31693

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 ggcagctggc ggctggcctg ggacgacgat gagcgccaag accagagctg gggccgcca 120
 tgtacgccgg cagctcgtcg cggccgtggc ggtgacggtg gcatgcttct actcctcgga 180
 ggcgacgcag ctgcaggtgg ggtactacaa cggcagctgc ccggccgccg agagcctcat 240

cgagaccatc gtccacgccg ccgtccgcaa ggacgccggc aacgggccgg gcctgatccg 300
 gctcttcttc cactactgct tcgtcagggg atgcgacgcg tcggtgctgc tggacgaccc 360
 gacgggcagc ccggggaaca ggacggtgga gaagacgtnc ccgcccaact tccctagcct 420
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<210> 31694

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H12

<400> 31694

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 ggcaagggtc ggtccttctt ctcccgtcc cgacgcggca agcgcggcag cggccggagg 180
 gcaggctcgt cctcgccgca ctctccgcg gcgagcgcg cgccgtcccc gtccccactc 240
 ccactcccga ggaggtcgcc gtcgtcgtcg tcaaccacaa ccagggacga gacggagcgc 300
 gtgttccgca agttcgacgc gaacggcgac gggcagatct cgcggtccga gctggcggcg 360
 ctgttcgagg gcgtgggcca cgccgtgacc gacgacgagg tgtcgcgcat 410

<210> 31695

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-H4

<400> 31695

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 aagttgcttc catgcttgca gctgctctgc tcgttgcaac gacgtttgcg tccattccta 120
 caaccgtgca ctccatcggc gtctgctacg gcacgctggg caacaacctg ccgtccagca 180
 gcgacgtggt gcagctctac aggtccaagg gcatcaaagg catgcgcatc tactcccccg 240
 acgccaaagc cctcgccgcc ctgcgcaact ccggcatcgc gctcatcctc gacaccggca 300
 acggcgggcg cgctcctgggc cagctcgcca ggagcgctc gttcgcggaac tcgtgggtgc 360

agagcaacgt gcgggcctac taccgccnccg tcggcatcaa gtacgtcgcg gtgggcaacg 420
aggtgcangg cgacgacacg cgc 443

<210> 31696
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H7

<400> 31696

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taaaaaatct ggggttcagg cattgcaa ataatgcttgc tcccagtgtg ccatttttga 180
gtctggtgtg ttaaggcagc ctatgcggtc aaggggactg cttgctcggc cttatattca 240
ttcaatgctt gctatagcag cagtctcgt atgcgtctgt gtattcatgc gagctttgct 300
gcggatcaat tctggaaaat ccttcaagtg ggagaagctg gattacggtg caatataatt 360
gtggggacac acctgagcct tgtggtatta ttaagttaac aagcaagttg tatggagcta 420
ttttgg 426

<210> 31697
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H8

<400> 31697

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aagagggagg atgtggtcat caacggctgg gagaccgagc aggtggagaa ggctccgcg 120
tggtcaaga agatcgagag gaagctggac gagcagcgcg ccaaggcgct ggagaagacg 180
cagaacgaca tcgccaaggc gcggcgcaag gcggaggaga agcgggctgc ggcgaggcc 240
aagcggggcc tcaagctggc caaggtgctg gagctagcca acttcatgaa ggccgtcggc 300
agggtgccca ccaagcgtc cttcttctag ccagccgact acccctgcc cttcgtctc 360
tcctgcctg cgtgtgatcg atgtacgtc gctgctgcat ccgagaacct aactgt 416

<210> 31698
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-H9

 <400> 31698

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 aaaagaaaaa gtaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaaa aataacttaat ttaataaaaaa aaaaatttaa tttaatagtt attttattta 180
 aacacctaaa tataataaaa tcctaaaatt tctaaaatta actgccttta aaaacattac 240
 cattacccaa tttaatcttt tattaaaaca ttcttaatta ataaactttt ttaat 295

<210> 31699
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-A1

 <400> 31699

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 acggtgcctg gattaggagt ttagctatag acgaaagcac gtacggccgc gtgcctggtc 180
 tagctacgcg gactggttga tcttgagcag ttaagcgtgt acgaaacgac agctgtgtac 240
 gtgtgtactg tctgatggag tgtgagaagt actgtgtgta tctggtatgg atccgatcgg 300
 gctgatgtat gaacaggatg ttacggact atatatagat 340

<210> 31700
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-058-Q1-K1-A10

 <400> 31700

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taaagatgcg gtggcagcat catactctat gcaagctaag agtgacagct gtgtttcagt 120
cacatatatg atctagtctg tgtgtcaatg tgtcgaaaaa catgtctgtg attttgttat 180
atgaatgtaa cgcgcaatga aacatacagg actagctgct tgcttgacga tgcgtttgcg 240
tgtatccgta taaattaaag gctataagcc acatcgata tgcgtactgc 290

<210> 31701
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-058-Q1-K1-A11

<400> 31701

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agtacaaaac cgaccgagaa cagcaataag ctagctacaa atcgggtccc agcccggaac 120
agcccagggga atcctgtact taggcattca cgcagcttgc ctgaaactgg tcgacgagca 180
gtacagaagg tctcatcaat cacagagaaa ctgtcgcaaa tgtcgggtgac ctccagaaca 240
cgaagcgccg tgaagcctgc cgtcccgcgc atgaaggccg gacatggcaa gtcagacttc 300
ctgggggaagt ctgacgatat ccttccggca aagaggctga cgagaaaatt ggtcagctaa 360
acaagggtac gtagagtga aatccgatca tctgcaggag ggtggaggga tatggtgtat 420
agtgtgcang aaccagtgtg ccga 444

<210> 31702
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A12

<400> 31702

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 60
agaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120
aaacatcata tataaatcta tacttttagtt actctacatt gaaaccta atttattctt 180
tggtgttact taaatcactt tatgtgtcct aaattcttaa acatatgtat tggaaaacct 240

ttgctttatc ccaagttaat cctattgtac ataataccta ttt

283

<210> 31703

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G3

<400> 31703

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tttgcttaag cgacaaccag tttgcagatt ggtcacctct tcttctgtc cctgatgaca 180

ttgaggtgta tgtttatggt cctgaagccg atatcctgtc agtcttagat gtgcctcctg 240

ggaaaatggg acgagttatt ggcagaaagg ggtcaacgat aatggctgtg aaagaatggt 300

gcaagggtga aatacatatt ggtggtgcta aggggcctcc agacaggggtg ttcatcattg 360

gaccagagaa ggaagtcagg aaagctgagg ccatctttcg aggcccgatg ctgg 414

<210> 31704

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A3

<400> 31704

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tctagagaac tctggccaag cttgcgtca cgcaacggac ggcatagcaa gggagcttac 120

tcattttggt catagtaatg ctaatatctt cgagagtaat gaggtccctg cttctgagat 180

tactgggggtg gaataataac aaggtgcctc tggttttcct caaccaacgg aggatgaaaa 240

tgcggtgggg tataatcaag atgtctctgg ttttcctcga ccaacggagg atgaaaatgc 300

ggtagattat aatcaagatg cctctgggtt ttctcgacca acgggagatg ttcaaagtgc 360

ctctgggttt cctcgaccaa cggaagatga aaatgtggga gattataatc aagatgc 417

<210> 31705

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A4

<400> 31705

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gcggtccacac gtccgactgt acaaaaaaaaa aattaagata aaaattaaaa aaaaaaata 60
aaaggataat tttaaaatta agaggattgt aaataaacia aattaaaaaa taaaatattt 120
ttaaaaatca ttttattaat attaatgctt aaatttttta aaattatttt tattttattat 180
tttaatttaa atttaattta aatattttta a 211

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<210> 31706

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-A5

<400> 31706

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ggatggagga ttagagcttc attgcaagct tgctcctcct gcagggcagg catgtcgcac 120
agcaaatggg catgaaaagt tgaaggcgct ccagtcctcc agcttgtgta gtacacagta 180
gcaataaaac gttagtgttt gtccctgtgcc catcctgtat tattctgttc cagggtttca 240
cctttatcgt cagtgtgtgg tcagggtttca acccttctca gaacaacccc ctcccagaaa 300
aaaaacaaag gaagaagttt gtgtccaggt ttcagaatcc cctgtctgta attaccattg 360
tgcatgacaa taatgagata ctgtagatat taataatgtt ccagaccttc aaggcc 416

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<210> 31707

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E3

<400> 31707

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ggaaggtaaa gcttacactc cactctaacg gtatcattta cccttcgtcg ctactccgct 120
ctctctccaa ttggcataat ccttcactct catttacttg taccaattga acaaaagtaa 180

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aaacgggctc aaagtctccg atttcggcaa ttaatgccaa aggagaagat attaagccca 240
aagcacaaaag gaccgcacca ccatttcaaa aaatttcaaa ataaagattt aatcgatgat 300
tttcacattg gtatccacac aatggacatc ttttcaattg gtatctttaa aggtagattt 360
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<210> 31708

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E4

<400> 31708

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tgagcgggtg gcgagagtag cgtgtaccct ccgtggcaag aggctggacg gtggtgtatc 120
tgtgtctctg gtttgcgtga acttgatctg gtcttaagaa ccccggtggc gggttgacat 180
atgcaagggt taagtgtac atatgtcgtg tgattggaga tctcagttg agtataatcg 240
attcggatcg ccgtaccttc gcggttatga agaattggtc acttcctgc aacctaaagt 300
caggatgtga acactatgga taaaaatgat gttgtattga tgaaatgttg aaattagact 360
agatgcaa at agaggctatt aatactta at a 391

<210> 31709

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E6

<400> 31709

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gaagccgagc cacacatcga tctacaaaga tgcattggac acgactctta tcttagctaa 120
ttaataagca ctacatccat gcatgtccac aatagggccc tagccctact atactatacg 180
tcgtcagcag aaagtctggt tttgatttca ataataagat gcacctatat gtgtgtgtta 240
catgtacgcc gttgtcttaa ttactgtgtg gtgattggac tc 282

<210> 31710

<211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E8

 <400> 31710

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 agttaaaaac aacaaaacaa aaaaaaacag aaacagcata ataaaaaaaa ctcatattaa 120
 aaaaaaaaca taaacttacc atcaagagat ctacaatgag tctcatcatc actgactact 180
 gcatgcccct acattacacg ataccatctt ctcaaacgca tgtaagggtc ctcatatctc 240
 aaagacattc cgatggtgat catttcatct tataacctgc ctttcccgat ca 292

<210> 31711
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E9

 <400> 31711

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 ggttcaatga ggccatcatt gaggagaggg atcagggaat acaagagatt caacacccaaa 120
 tcaactgaagt aaatgaaatc ttcaaagatc ttgctgtgct agtccatgat caaggagcaa 180
 tgatagatga cattgattcc catatagaga atgctgttgt agcgacttcg caggctaaag 240
 gtcagctttc aaaagctgcc aagactcaga agtcgaactc ttcgctgata tgcttgttat 300
 tggttatctt cggcgtggtc ctgctcatag tgataatagt acttgcagca taaaagcttg 360
 gaaggcagct gaggttccga tgatcgagct tattgcgatg aattccttat tattatTTTT 420
 tttgctgtgc aaccaggaat gggatcctg 449

<210> 31712
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-F1

 <400> 31712

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tgtgtactgg acttggtggc ttcttcaata accttgcagt tgaaaacatt gctgggttca 180
agttgttgct tacaagtgat ctgatgctca agcataggta cttcacagca tttctggcat 240
atggagggtg caatctagtc ttggcagctg ctgctgcagc gatctgcgct tacatagcac 300
ctgctgctgc tgggtctggt atcccttgag ttaaagcata ccttaatgga gttgatgctt 360
atgctatatt agctccaagc aactgttt 389

<210> 31713

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F11

<400> 31713

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gtcggcgact acgggttcga cccgttcggt ctcggaagc ccgtggagta cctgcagttc 180
gagttggact cgctggacca gaacctggcc aagaatgagg ccggcggcat catcggcacc 240
cggttcgagt cctccgaagt caagtccacc ccgttgcagc cctacagcga ggtgttcggc 300
ctccagcggc tccgcgagtg cgagctcatc cacggccgct gggccatgct cgccaccctc 360
ggcgccctct ccgtcgagtg gtcaccggc gtcacctggc aggacgccgg caaggtggaa 420
ctggtggacg g 431

<210> 31714

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F12

<400> 31714

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gcacccctgat aatacattgt ggcaataacca cgtgggtgcac gccaatctct cctttccctg 180
catagcttta ttgacaattg atatgcttag ccgtgggggtt ctttatctat ttgttgtagc 240
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cgggcagatg cttgttttaa gacagcaatt cttgtactcc gtagctaaga atgaatgcc 360
tataaatgtt gcagtagata agcatcaagg agtgtaagat gaagatggca gttcttttgg 420
tttatgagat gagatgggtgc tctaa 445

<210> 31715

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F2

<400> 31715

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cgtgagtctc atcatcactg actactgcat gcccggcgtg acaggatacg atctgctcaa 180
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cgtgcctgcc cggatcagca ggtgcttgca ggatggcgcg gaagagttct tctgaagcc 300
cgtgaagccg gccgacatga agaagctcaa gtcacacctg ctgaagcgga agcagcccat 360
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<210> 31716

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-F4

<400> 31716

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aaccgtaaaa acatcgagct cgagggaaca tttgaccaga tcaagcacgc tagcgcaatg 120
gtcacagagt tgattgtccg catcagtggg aagccgcctc cacaagccaa gaacaaccca 180
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gagaacttca acaaaggctc ctgcaccttt ggagacaggt gccacttcgc ccatggcgaa 300
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 aatctgcttg tatggctgaa taacaccatg 390

<210> 31717

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F5

<400> 31717

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 atccatgggc agctactcga ataccaacac aagcggcggg gccagcgaca aggaggacaa 180
 gaacgaggac aaggtctaag gcaaggactc gtcgaagcca tacttcaagg agaacgaatg 240
 ggtcctcgcc taccactgcc acgtcctcta cgaggccaac gttcacagga tcgaagacca 300
 tgaatacgaa tggcactact ttggccatta tctcagctgg aataagaact gggatgaatg 360
 ccttgcaaat g 371

<210> 31718

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F7

<400> 31718

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 caattttttt tcttagggta ccttaaatta aattttttta tccgggtattt tacaattaat 240
 ttaatttgaa aaactttttac attaccaaatt ttaataaaact tttagaaatt cccattttta 300
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<210> 31719
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F9

<400> 31719

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gcagtagtta aacaaaagct ttctcaagag gaagaagaaa aatttaagaa tgcactgcaa 180
ggctttcaag caacgctgag taagtcgcct aatgatccta ctgctcttga ggggtgcagca 240
gtatcgttgt ccgaactagg tgagtatgag aaggcatcaa cattccttga gaagctaatt 300
aaggtaatcc ctgataaagc agaagcatac cgtttgcttg gtgaagtaaa gtttgaactc 360
aaggattatg aagggagttc atcatcatac agaaatgctt tatcttcatac agataatatt 420
gattttgaag ttctacgtgg actgacaaat t 451

<210> 31720
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G10

<400> 31720

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tgataagcag atcgagaagc gcataaggag acaacttcat gggctaggag gcttaactga 180
cggtttcgac cttgggatga acatgctgtt gggaggagac aaggaagatg atggtggttc 240
aagcaagtca catggcaaga gcggaaccg aaagaagcac ctgaagagca acaagaagag 300
gaagaggcat tagccttggg cccacactgc tgtagcactt caacataccg atacagccta 360
gaagacggtt caagcaagcc acacggaaag ttgaagctgg agaaaatacc aagaaaccaa 420
gtagag 426

<210> 31721
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-G11

 <400> 31721

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 atgggtggca ggcgcagggc tgctctgctg ctggccctgg tgggtggggc cgtgagcctg 120
 gccgtggaga tccaggccga cgcgggttac gggtacggcg gcgggtacac cccgacgccg 180
 acgcccggca ccccgacccc gaagcccagc aagccccca ccaagggggc gaagccggac 240
 aagccgtcca aggagcaca gccgtccaag gagcacgggc ccaagccgga gaagcctgcc 300
 aaggagcaca agccgacgcc tgccacgtac accccgagcc ccaaaccac gccgtcgacg 360
 tacactcca cccggacgcc cccaagccg acgccacca catacactcc cggccctacg 420
 cccacaaaac ccacaccta ac 442

<210> 31722
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-E12

 <400> 31722

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 ctgcatgcc gtccaagaag accaccgtcg ccagggtccg gcgcccgcac gcgacgtgca 180
 gggccagcag cggcgggtggc ggtggccgcg gcggcgaaaa tgatggcctc ctttggctgc 240
 cccggcggga cgtgatgctc aacggcctgt ccagtgtgc cgcggggctc gcctgggtacc 300
 cgagcgtgc gtccggcgcg gatgctgtgt gcaccattgc cgtacaggtg tacgagaaga 360
 ccgtgcagtg cacacacct ggcgggcagc ttccgtgccc tctggtgt 408

<210> 31723
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-B4

<400> 31723

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tctcctccat attagtgagc aggatgtata atcctcccag tgggcaggac atgtcctact 120
acgatcatgt gcagaagcgc catgaggaga agggctgcct atatgcatgc ctgttcaactg 180
cgtgctgctg cttctgctgc ttcgagacct gtgagtgtgt cctcgaggcc atctgctgt 240
gctgctagtt ctgcttggag ggcattggcg tccatcatcg tggagatgtg gccatgctgg 300
acacccaccg ncgaataaaa tgctgtactt atatgcacgc acgttagaaa tgcattagt 360
tctggttgat gtgatnctgt gtgtgtg 387

<210> 31724

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B5

<400> 31724

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catggacgcg agcgcggcca ccgccaggcg caagcgcaag cgccccgacg ccgacaacac 120
cggcgacgcc accgcgcgcg ccgcgcgcgc cccggccgcc gtgcacgagg cctacgacgc 180
cgaggtcgag gagttctacg ccattctgcg gcgcattcgc gacgcctccc gccggctgtg 240
cggcgccggc gcccgggccc ccccgcgggc gccggcgtgg cggcccagct tctcctggga 300
ggacttcgcg accccggccc ctggcgcgcc ggcgcctgag acctcgacgc ccggcgccgt 360
gcatgagccg gcgcagccgc ggtccgacga gcctgtagcc gtcgtccgcg c 411

<210> 31725

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B8

<400> 31725

gactatgccc ttgatccca taatacatga ttacttaatg gatcgacta ccttcgcgcc 60
aatgactcac catacaaata catgccctat ccacttccga tagtacaata cgccctacc 120
ctggaggaca ctcgtaacgc ctaattataa t 151

<210> 31726

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-B9

<400> 31726

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gagaaagctt ttattctcaa agcgttgata aaaagccgag cgaaaaccac gtgcacacgg 120
cggagtcaca gaagcctgac gaaactttta aagctcctgt gtttgatatg tcagaattag 180
aaaatctttt ctcagctgca ctgccaaagt cagattcaag gcgttcagat aagtcaggca 240
gtcgtgcatc tgggtcgaaa ccagagaaaa ttcattcttat tgatcttcgc cgggctaaca 300
attgtggaat catgcttacc aaagtcaaaa tgccactgcc tgacctaatg agtgcaattc 360
tggctctgga tgatactgnt ctggatgctg accaggtgga gaaccttatt aagttcactc 420
caactaaaga tgaaattgaa c 441

<210> 31727

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C11

<400> 31727

taaaaaaaaa aaaaaaaaaa aaaaaaaagt taaagattaa aaaaaaaaaa tataaaaaaa 60
aagaaaattg taaattttta aatgctacta aatatataat tatatattct atcctattat 120
ttaatttttt tt 132

<210> 31728

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C12

<400> 31728

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tgggatgaca caagtgtggg tcgtgttggg ccaccacttc cttgctgcta tgtgaagctt 120
gtttcatggg aagaagggtg ttacaagatt tctgattatc cgatgccgag aggagagggtc 180
gtggttggcg gacacagtat aacaaaaggc tatttcagca atgaagcaaa gacgaatgaa 240
gtatacaagg ttgacgagag gggatatacg tcggttctaca ctggtgatat tggccagttc 300
catcctgacg ggtgccttga gattattgac aggaaaaaag atatagtaaa gcttcagcac 360
ggagaatatg tgtctcttgg caagggtgaa tcggctctag caacaagtag ttatgtggag 420
agcatcatgg tctacgc 437

<210> 31729

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C3

<400> 31729

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ggactgattc attatataaa aggctgacgc attctctgcc ctccgatcct ataattcatg 120
ataacttgac cgatcacact gacttcatac ctataactca tcattcaaatt tactgcctta 180
tcaactttca atggtataat atagccctac catattat 218

<210> 31730

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C7

<400> 31730

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tatcaagctg attgattttg ggagtacaac ttctgagagc caagaccaca attatgtggt 120
gtcgacaaga cattatcgtg caccagaagt tacccttggg cttgggtgga actatccatg 180

cgacttgtgg agtgtggggtt gcatttttagt tgagctttgt tcgggggaag ctctctttca 240
aacacatgaa aacttggagc atttggctat gatggagaag gtcttagggc ctctcccaaa 300
gcatatgatt gtcagagctg atcggcgtgc tgaaaagtac ttcaagcgcg gagtaagggtt 360
ggacttgcca gagggagcgg cctcacgaga gagcatgaag gcagtctgga aaatgcctcg 420
tctgcagaac ctttgtgatt gcacatgtga 450

<210> 31731
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C8

<400> 31731

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actccaccac ggcgcagctg ctggctcgccg cctgggaacc ggcggttaag cctagcaagc 120
tgagctcgca cctcacgctg ccgtcgatcg tacatgcgcg gaccggcccc gctcctcgcg 180
tccacctagg aggcgttagca ggcgcctaag gggatcgtga ccccgcatga ttgccccacc 240
acggcggacc cgatctccaa gtgatgcaca accggcctga tccccatggc gcacttgtac 300
aagttttaca ccacacata gacctacacc accgagcacg tgctatagat gatcaccgga 360
gg 362

<210> 31732
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C9

<400> 31732

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aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaataa 180
tttaaaaaat aaaaatattt taatttaaaa aatttaaaaa ataaatattt ttttttaatt 240
taaaaaaatt taaaaattag tgggttattt taaaaa 276

<210> 31733
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-D1

 <400> 31733

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 aggacaacct gatcagggttc agcattggag tggaagattt tgaggacctt aagaatgata 120
 ttggtcaagc cctcgagaag atataagctc caatccattt gcattaataa agttatgaag 180
 tgatggttgt ctggatcttg tagagatttg tgatgatata tgagctgttg actgcgaata 240
 agttctcttg tgcttatttt attctttgaa ttcaataagc tgtgggttgc tgt 293

<210> 31734
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-057-Q1-K1-D12

 <400> 31734

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 aaaaaggaaa aagtgataaa ttaaaaagtt ataataaaaa ataaaaataa ataataaata 120
 ataataaaat tattaatatca tttatattta tttttttctt attaatattt ataaataactt 180
 atcttatttt taaaaaatat tttttataat tttttcatat tattctttta tattactaat 240
 ttttttataa tatactttta ttttattcta taataatcctt atactttttt ttttttaatt 300
 ttactaatat tttttttatt tatttaattt tttatttttt aataatttat ctcatattcc 360
 ttctttttta ttataattat tttttttttt tt 392

<210> 31735
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-057-Q1-K1-D3

<400> 31735

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gagctgaaga ggaggaggag gaggaggaga agcagcagcg cagccggagg agggagagcg 120

aagatgcgcc gcgtcgcgct gttgctcgtc gccgccgtgt gcgcgctggc ggcgccggct 180

gccgcggtcg tctactgacgg tcttctcccg aacggcaact tcgaggatgg cccgcccaag 240

tgggcgctgg tgaacggcac ggtggtgtcg ggcgccacg ccatcccgcg gtgggagacg 300

tccggcttcg tggagtacat cgagtcggng cacaagcagg gggacatgct gctggtggtg 360

ccgcaaggcg cgcacgcggt gcggctgggc aacgaggcg 399

<210> 31736

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-D6

<400> 31736

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gacaaaacac aaaaggaaag acacataaat caaaaaataa ggcctactct tttaatatgct 120

ccactcttct ttcccccttac ttcacatata ctagattttc tatcacctcc cttaaattcta 180

ttcaactgct cgagctttaa caacttccaa attttgaact ccttgcccat tcctacctta 240

<210> 31737

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B3

<400> 31737

cccacgcgtc cggagatgaa gaagatcgcc tgcgccgtcc tcgtcgccgc ctcggcgggc 60

accgtggcgc tcgccgcgga ggctccggct ccggccccca ccagcggctc ctccgccgtc 120

gcgcccgcgc tcggcgccgc cctcggcgcc gccgtcgct cttcttcgc ctactacatt 180

cagtgagccg gccgggcgcc cggaggccga cgaagagacg aatgggagag agtgagacat 240

ggctgcgcgc ataccgatgc gtgggcatgt ttctgattcg acacaccttt tgtcctcttt 300

aatctttgtt cctctgtctc cttaacttaa cgaattgatg catgccgctg atgtttcttcc 360
cctgagagag ggattaacac ttgtatcatt tcatccgttg gcatttggtt gaatccattc 420
aaca 425

<210> 31738
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-D7
<400> 31738

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agtgttaa ac atcgctat tt ggtcaatctc cgtgggtatt gcaactcccc ttcataaaaa 120
cttttgata atgattatct tcaaggtgga agtctggatg aagtgttca tga aaaatct 180
gaacagttgg attgggatgc acgtattaac attatacttg gagctgcaaa aggcttgtct 240
tacttgcac atgactgttc gcctcgaata atacatcgtg atattaagtc gagcaacatc 300
ttgcttgatg gcagtttcga ggcccgtgta tcagactttg gacttgcaaa gcttttagag 360
gatgaagaat cacatattac tacaatagtt gcaggaacat ttggctacct tgcaccagag 420
tatatgcaat ttggca 436

<210> 31739
<211> 51
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-D8
<400> 31739

tcccggtcga ggccgcgtac gccacgcgt tcggttctag atcgcgagct t 51

<210> 31740
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-E1
<400> 31740

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gcgagcgagc tagcagagcg gcggcaggca cctccctcct caaggaacat ggcccgcacg 120
cagcagttgg cagtagtggc gaccgccgtg gtggccttgg tgetgctggc ggccggcgacc 180
tcggaggcgg ccatcagctg cgggcagggt gcgtcggcca tcgcgccctg catctcctac 240
gcgcgcggcc agggctcggg gccctccgcc ggctgctgca gcggcgtcag gagcctcaac 300
aacg 304

<210> 31741
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-E11
<400> 31741

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gcgcctgcgc cacctccatc cccctcgtct cggcgccctc tgcattgccc tccaagaaga 120
ccaccgtcgc caggttccgg cgcgcacgg cgacgtgcag ggccagcagc ggccgtggcg 180
gtggccgggg cggcgaaaat gatggcctcc tttggctgcc cggcggggac gtgatgctca 240
acggcctgtc cagtgtcgcc gccgggctcg cctgggtacc gggcgctcgc tccggcgcg 300
atgcggtgtg caccagggcc gacaaggta acgagaagac cgtgcagtgc acggacccgg 360
ccgggcagct tccgtgccct ctggtgtcgc cgac 394

<210> 31742
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-056-Q1-K1-F3
<400> 31742

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gatcttctta aattattcta tcttccacag ctgctgcaac acctgatatg tttgtttgtg 120
ttgttattaa ttattaagga tagctagctc acctttatta tttttaataa taattcttat 180
ctgtaactta ctatatcaat catacttatt tatacactta tatttatttg ttttaccgta 240

acttgaatgc ttataaaatg taatttcatt gtcttctttt t 281

<210> 31743

<211> 245

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-F8

<400> 31743

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ttctgtcacc gtgttagtgt ccgttctacc tttggattag gtgttggtac ccctgttggt 180

ccctttggtt gctcccgtta tgaaacgaga cgagagaaga atgagcaagg tttttgttcg 240

cagct 245

<210> 31744

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G1

<400> 31744

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ctatccgccg ccagcccaca tacatacgaa aactaacag agagctagcc ccctcagat 120

gctgcttctc caacacacac ctccctaaag tattctatca accaaagccg ctgctacacc 180

tgatatgttt gtttggggtg ttattaatta ggacggacta gctagctgat ctatattatc 240

gtacacaata atgctacgct gtacctatct ataacaagca cacaaat 287

<210> 31745

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G12

<400> 31745

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gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg tcgccacctg gtacgacgtg 120
 ccccggtgtgg agcgccacgt cgcgctccct ggccttatcc ggacgctcaa gatgtgcggc 180
 acctacgggg ccaccttcgc caccatcggg ggcctctaca tcggcgctga gcagctcgtg 240
 cagagccagc gcaagaagcg cgacttcgtc aacggggccg tcggcgcggt cgttgccgga 300
 gcctctgtct gcggctacag aggaaagagt attcagtcag ccctcatcgg aggctcctgt 360
 ctggctttca catctgctgt gctggacatt ggcggcaata 400

<210> 31746

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G4

<400> 31746

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 gttcgcccta gctgacgtct tcggcgctc caacttcaac gacgagcgct tccaagatag 120
 cggctgcgtt ttccggagtt actaaggggg ctatctcacc gccgaccact c 171

<210> 31747

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-G8

<400> 31747

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 acatactttg cttatatctg gagggataga agctagtgac tttgatgcct tcatatgcaa 180
 cagtggcagn gatctttgtt atccatcttc aagctctgag gacatgcttt accctgctga 240
 gctcccatc atgattgatc ttgatatac t 271

<210> 31748

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-G9

<400> 31748

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gttccttttcg ccgctgcoga cgttctaccg cgtgtaccgc aagaagtcga cggagggggt 120
ccagtgcacc ccgtacgtgg tgacgctggt cagctgcatg ctgtggatct tctacgcgct 180
gctcaagtcc ggcgcgcgagc tgctgggtgac catcaacggc gtcgggtgcg tgatcgaggg 240
ggcgtacctg gccgcgtacc tgggtgtacgc gcccaaggcc gccagggcgc tcacggccaa 300
gatgctgctg gggctcaacg tcggcgtctt tggactcgcc gcgctcgcca ccatgggtgg 360
ctccagcgcc ggccctccgcg tgcgcgtgct cggatggatc tgcgtcagcg tcg 413

<210> 31749

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-H12

<400> 31749

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aaccttttcc ctcttctatt atgtctccta aactaaaatc cctgacccca aactttttaa 180
ccctatactt ttgaaaaacc tacggatacc ccaacttaat ctctttttcc cacatacccc 240
ctttgcccac aagcttaaca cct 263

<210> 31750

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A1

<400> 31750

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agcagtgcaa taaaaaaaaag cagccgcaat ggcgagcagc accatggccc tctcctccac 120

ggccttcgcc ggcaaggccg tgaacgtgcc gtcgtcgtcc gccttcggcg aggcccggt 180
gacgatgcgc aagacggcgg cgaaggccaa gccggcggcg gcgtccggga gcccggtgta 240
cgcccccgac cgcgtgctgt acctgggccc actgtccggc gagccgccga gctacctgac 300
gggcgagttc ccgggcgact acggctggga caccgcgggg ctgtcggcgg acccgagac 360
gttcgccaag aaccgggagc tggag 385

<210> 31751
<211> 358
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-057-Q1-K1-A11
<400> 31751

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tggtcggcaa gatcacgcgc aactaattaa gctagctatc gatcgatcgc cattcatgta 180
ttagctgttg ctctctgctt tgtactccgc cgatctgtcc atctctacat gttttcgtct 240
tcacacaaca acctctgcta cgactacgta tatatgcacg ctactagctg attgatttta 300
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<210> 31752
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-057-Q1-K1-A3
<400> 31752

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ccgaggcgcg ggagatggcg ggcgagtcgc tgtgcgcctt .ggtgaccgtg ccccgcaacc 120
ggaagcgggt cgtccaggag gaccgcgacg tggcgcgggt gctgcagctg ctgggccccg 180
acgaggagaa ggagaagccc gcgccggcga ggcggttcct gctgtcgacg gtggcgcacc 240
tcacggacag cagctccggc cggaggaaga tcatgtcctc ggagcacgtc aggtaataca 300
gtacgatacg aacaacacgc acacgtagcc aatcatcacg tgctcatcaa ttatcgctgc 360

agttctcagt tntttttttt ggaaaaaac aaatgcttgt ggtctcgtgg caggaa 416

<210> 31753

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A4

<400> 31753

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gtaaatgtaa aaattaataa aataataaaa aattaactct aaaatattaa aaa 113

<210> 31754

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A5

<400> 31754

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tggtatatga tgatgtactc tgcattgtat caatactgca tccaattttt ggcttgcata 180

tggttctagc atatcagtgt gctaccacac tgccccctg acaatatttg gtcttcagca 240

ttcaggcact tctgagtgcc ccaaattccag atgacacctc ctcagacaac attgcgaaac 300

actggaaatc aaatgaagct gaagcttttg agacaggtag ttgtagttgc agtaaacaca 360

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tggcagtc 428

<210> 31755

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A6

<400> 31755

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tccagcgagg aggacggcgc cacgtggggc agcctgtgga acctcgacgg cgccggggag 180
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gcaagccgcg cgcattgccg tctgcttgag gggaggggaa agccgaacag gtgatcgctg 300
tcgtcgtcgt cgtgtggtgc tgggtggataa ggacggaacg gaacaactgc taccgcgtac 360
gttcactttg cagccgcac actgcatcag cagctatacc gcgcgccgnc tgagccgagg 420
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<210> 31756

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-F10

<400> 31756

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gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 180
gaagtgcagg atcttgaggc tgggtggtatt caggttatcc aaatcgacga ggctgcactg 240
agagaagggc tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac 300
tccttcagaa ttaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc 360
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<210> 31757

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-057-Q1-K1-A7

<400> 31757

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ttatgactga tgcaagatcc acaggaaaat actaccactt tgtgaggctt atgggtcgtg 180
 ctgcttctca cattacattg gaatgcgctt tgcaaacaca ccccaatgct gcactcattg 240
 gggaagaggt tgctgcgaag aaagaaaccc ttaagaatgt cacanactac attactgata 300
 tcactcgcaa gcgtgcagat cttgggttaca actatgggtgt tatccttata ccanaaagcc 360
 tgattgattt cattccaaaa gttcaaaaac tcatcgcgga aatgaatgaa attttagcac 420
 atgatgttgt 430

<210> 31758

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-A9

<400> 31758

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 accgtgttca cgccccgcgc gccggcgccc accgtggtgg agaagctgga gtccgtggcg 180
 cgcgccctag gattcgaggt caccaggggg aaaggctgga aggtgaggat ggaggccaag 240
 gccgagggca cgaacggacg gctcgcggcc accgccgagg tgctcgaggt ggccgtggac 300
 gtgaccgtgg tcgagttcgt gcacgacgcc ggggacgcgc tggactttaa caagttctgc 360
 gccgtcgacg tccgcccggg gtcacggag atcgtctggg cgtggcaggg cgacagcccc 420

<210> 31759

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-C1

<400> 31759

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 accaaaattc acacctaaca atgggttttc accttatcaa tctctttaaa tacattcctc 180

atagccaaac atatttggtt tccactcttt tcaatttaca ctaaccataa aattttattc 240
 taaatt 246

<210> 31760
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-056-Q1-K1-C2
 <400> 31760

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 tggataacat ataattgattt caactcaaat caaataaacac ttaccataaa gtcttatgct 180
 aataggaacg tgatttgaca attattccat tataatctaga gagtaaattgc ttggtaacat 240
 gaaaatagaa caacttttaa atcattattt ctatgaccat ttcatttaac ttcattagtaa 300
 aaattaggc 309

<210> 31761
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-056-Q1-K1-C4
 <400> 31761

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 ctgcccgaac tcgacctctc cgagaaccag ctgacgggag cgatccccga gggctctgggt 240
 gccggccccg ggaatagcgg cgtgctcacg acgctgtacc tcggccggaa ccggctgtcg 300
 ggcggcgctc cggcgagcct gcttcggagc ggcgggctcg ggatgctcaa cctcagccgg 360
 aacgcgctag ggcggggcgg ccccgacgag ttcacgccga gctgctactt catgct 416

<210> 31762
 <211> 235
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-056-Q1-K1-C7
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 tattttacaa tgggtgcatga gttgcataaa ctgcatgtac aagaaaagac aatcattcgc 120
 aactttttatt aactaaaaat cacagaacgg ctagctccca atctctataa ataaaatcaa 180
 catggataac ataatatgag ttcaacttta aactaaaaac attaaccata aattt 235

<210> 31763
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D1
 <400> 31763
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 tcacaacttt tattaactaa tttatatcag aagttctttt tctaatatct ctagatataa 180
 aatcatcatg gttaaaatat tttgttttca atttaaaac 219

<210> 31764
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-D11
 <400> 31764
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 cttcaattcc ttgtgcgga tatccaatca attagaattc aggttaaaga gggcttttat 120
 cctcgtcgta tcctttatat ggaaatccgg ggccaggggg tcattccctt gactcgtact 180
 gatgagaagt tttttactcc acgagaaatt gaacaaaaag ctgccgaatt ggcctatttc 240
 ttgcgtgtac caattgaagt attttgagta ccaattgcaa ttttttgcaa ttgtaagggg 300
 attttcgagt atttatctaa agtaaaggaa ggaacaaacg aggataagag aaaattgctt 360

cgaatttggtt ttgtccaaat gagatatatg gcatacta

398

<210> 31765

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-D12

<400> 31765

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gggcccggcc acggaacgcg ccgncgccgn cgcgctcatc acatcacaga ggcctcgccg 120

tcgtctcgga tattccccgc cgtaggacca gtttccctcc agctgccgga gaccatgtcg 180

ggcggcctgg acatgtccct ggacgacctc atcaagcagt ccaagtcccg acccaaggac 240

agcccggcgt ccttgctggg gcctgcccgc cgcgcgccac aaccccgcg cgccgtgccc 300

taccacccgg ccgctcccaa ggcccgtgcc gncgccgact cgccttacgg ggtctactcc 360

aagcacatcg ccgcgatagc gccgcccccg ctggccaaag caaggctcgt tgagacggga 420

<210> 31766

<211> 384

<212> DNA

<213> Zea mays

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<400> 31766

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gctgatccag gaaatgcatt tcttgtgcca tcaccttact acccgggttg ggatagggac 120

ataaaatggc gaactggtgt tgagttgata cctgttcctt gtcgtagtac tgataacttt 180

aatgtcagtg tcaactgctt tgaaatagct taaaaacagg caaaaaagcg aggaataaga 240

gttcgtgggg ttctcatatc taacccttcg aacccaacgg gaggcattgt gccaaaagaa 300

atactgcatg accttctaca gtttctgtgca gagaagaaca tacacttaat ttctgatgaa 360

atatttgctg gttcaacata tgga 384

<210> 31767

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D5

<400> 31767

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caaccagtgc cgcaaagga ccccgctcgc gggctgccag gacctggagt ggagtgagtg 180
agccggtggc ggccttggtt tctctgctct gctctccctc gccggcgtgc ttcacgatcg 240
tgggtgtgtg aaggaactaa ggacgacggt gcctggttta ggagtttagc tatagacgaa 300
agcacgtacg gccgcgtgcc tggcttagct acgcggcctg gttgatcttg agcagttaag 360
cgtgtacgaa acgacagctg tgtacgtgtg tactgtctga tggagtgtga gaagtacttg 420
gtgtatttgg tat 433

<210> 31768
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D6

<400> 31768

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tgtagcatc ataactttga gtactacaca atactaatat agtacatact ttttgtt 117

<210> 31769
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-D8

<400> 31769

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cctcgaaggg aaagcaatgt cagagtttga agaggcaatg tcacaaattg ttggattgca 180

ggagctaaaa atgcaattgc gccgatgggc acgaggaatg ttttttgatg agaagcgacg 240
 ggctatgggc ttggggattg ctaaaaggag agctcccat atggcatntc ttggcaatcc 300
 aggaactggc aaaactatgg ttgctcgaat tcttggaag ctctacaca tggttggaat 360
 tcttcctact gacaaagtaa ctgaagtca gcgaactgat cttgtggaga atttgtgggg 420
 catactgg 428

<210> 31770
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-D9

<400> 31770

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 agaacctcga gttcaacttc cgctggaccc gccgcagcct cgccgtcgtc ggctcttctg 180
 gcctcgtgtg ccccatcctc gtctacaagg gcatcgtccg cgaattccat atgcaagacg 240
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 tcgattcctc gaccggggct tcgaagaggg gagtttctat tcagtttgta tcggtattgt 360
 tttagtctga atctgatgaa gcaatttggg atgcttgatt attgtgctg at 412

<210> 31771
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E10

<400> 31771

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 gccttcgtgc gtgcagggtc gctgctgctg ctcgctcctg cgccttctcc cccgcgacga 180
 cgcgtctctg tccccctccg cctgcgcgca ccgcctgaag ccttggtctt ggcggtgccca 240
 atccccacc tcgtcctcct aacgcttgtc cccgcccgct cccaccctg atctacctgt 300

ctctaccctt cctcctcca tttctacatc tccccgttgc tgctctgctc ctgctgccac 360
aagagtattc gccttcaatc gttgctcgcg cctgtcattt cgtgccgcac gccga 415

<210> 31772

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-E11

<400> 31772

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gctcacctcg cgacctgcag gcgctgttga gcgtgaagca ggcgctaggg aaccgggcaa 180
cgctgtcgac gtggacccca gcgtcgcccg actgctgctc gtgggaccac ctccggtgta 240
acgacgccgg acgcgtgaac aacgtgttca tcgacggcgc ggacgacgtg cgcggggcaaa 300
tcccgctcggc ggtggggcggg ctgacggagc tcatgtcgct gaccctgttc cggctggcgg 360
ngctgacggg ccccatcccg g 381

<210> 31773

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E12

<400> 31773

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aagtccagac tcatagagtt gcagagaact caagaaattg ttatgggttca acatgttgaa 180
gaatgccaag tggctgaaga taagatcaga actacaaggg agaattcaga agttactaga 240
agattctacc tttgctgaaa atcacaagca agagttgctt caaaagattt tgaagctaga 300
atcagataat caggaactcc taggacaaat gcagtccatt atggaagaga aatcaaataa 360
tgctgaatct ctgcatggag agataactaa gcgtg 395

<210> 31774
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-E4

<400> 31774

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aaagagagca tcaacacaaa cgtttgaga atggaccac agaaccatct atatacctgg 360
ctgggaaaaa cagnagtaaa cttgcttagt agaatatgta gtggcgtgga ataattttt 419
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<210> 31775
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-E6

<400> 31775

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ttctccagtg cttgtagctt gtggacttgg gttgtccaac atgtcatgaa taaaactga 300
gtttgcttc 309
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 <211> 184
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B6

<400> 31776

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tgcacctgtt cagttattat gttttgatat ggtttctcaa tttcttagga taactctgta 180
gtct 184

<210> 31777

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-F1

<400> 31777

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ttcaccggaa gtgc 374

<210> 31778

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F4

<400> 31778

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gccatgccgc cccagccgtg ctgcggcggc atccgcagcc tgctgcagca ggccaacaac 300
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<210> 31779
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F6

<400> 31779

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<210> 31780
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F7

<400> 31780

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 gcggcggagg gaggagcacg cgcggagatc gcgttcccca gcacggtgca tggagcggag 180
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<210> 31781
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F9

<400> 31781

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gtggattggc atctcttata ttctgtggct atatcatcta tgacacagac aatatcatca 180

agcgccacac atacgatcaa tacatatggg cagctgtttc actctacctc gacgtcatca 240

acttgttcct gtctctgctg cagctgctga gggcagccga tagctgagct cattaatgga 300

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ttg 363

<210> 31782

<211> 426

<212> DNA

<213> Zea mays

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<400> 31782

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cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240

aagtggtagc gtcttgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300

gtaccggagt acctcaccgg agaggtccct ggagactatg gctacgacct ttttggcctg 360

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gccatg 426

<210> 31783

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G4

<400> 31783

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gtcgtctact tgc 433

<210> 31784
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G6

<400> 31784

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gaaaaaaaa aaaaaaaaa aaaaaaaaa taaaatatat ataaaaaaaa aataaaaaaa 120
aataaaataa aaataaaaaa aaataaacaa 150

<210> 31785
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G7

<400> 31785

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gtaatggcca cgagcctcag aatgtatgcc acgtgccagc agcttgctca tgctgcagct 120
gccaacagtt ttctcgcca cactgagctg cgtgtgcatg taccgccgc cattaccctt 180
gctacgagag gccggttaca gagccttaga cttcaactgg ctcttcttga tcgtgaattt 240
gacgatttag attatgacac tctgagagca ttggatgctg acaatagccc acatgctcca 300
tctatgagtg aagaagaaat aaattctctt cctgtcttca aatataaagt tcaggcacia 360
cagaagcacc ccctgcccg aaaaagtgat gggccatctc agctatcggg ttcttcaact 420

gggtcccga atgatgaaaa gcatggaggt ttaaaag 457

<210> 31786
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H1

<400> 31786

accctgact cgtcgctga cgcaggggcg cgagggaatc ataacaaggg ct 52

<210> 31787
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H12

<400> 31787

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aacaiaaaaaa ataataaaaa atttaataaa cctaaaaaaaa aaatacattt accaaaaaaaa 120
taccactatt acatttctaa aaccctctt tataccaac ttactcatat tacatcacat 180
ttcctctcct tctacttact tacaacacat acaatctctc ttc 223

<210> 31788
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-H8

<400> 31788

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ctttcaagaa taaggacaac cttggaggag ataagcttgt cactgttgaa gatattgtcc 120
gtcagcattg ggccacacat ggtcgccatt attacacacg ctatgactat gagaatgtcg 180
atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca tcaatttctg 240
atgttaacaa gttgatcaag gagatccggc ctgatgtttc tgaagtagtt gcagctgacg 300
agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc atccgatacc 360

tcttcggaga tggttcacga ctggtgttcc gtctatccgg aaccgggtct ggtggtgcca 420
ccatccgtgt ctacatcgag caatacgaga a 451

<210> 31789
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-056-Q1-K1-A12

<400> 31789
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tacgccttcg tccaggaagg gctggccaag gggaccctca agctggtcgg cgcccactac 120
gacttcgtgt ccgggaagtt cctcgtatgg gaaacttagc caccgcgcgc tcagctagcg 180
cgcgcccttcg tcacaactcc tatactttca taaatatata tatccacgta ctacctatat 240
atacctaccg atatgtgaat gcgaggagta ctattacctg catgttttca gcagtatgca 300
gctacgtaca tatatatgta ccggtatgcc tgacgacgtg aatgtaataa gcaataacat 360
tttctaccgc tttnttttta tttctttcta acgtcgagct tctatatgta gcaacaacat 420
tttctacgta catatatata t 441

<210> 31790
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-056-Q1-K1-A5

<400> 31790
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actctaaaag ggaaccaatc ttacctcccc tttcttacia ctaaataaat cttttataacc 120
cttacctaaa tccaattcac tttctcttca ttttaactctt atttaataat aaaacactct 180
tctaaccocat attaatctca taaaaacaaa acttactatc tccatctact ctaataaaaa 240
aatcccata accaatctgc ctatctaac 269

<210> 31791

<211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-056-Q1-K1-B1

 <400> 31791

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 gaaatgttta aatttaaagt gttgttctcc caatttaaaa aaaacaaaat taacaatctc 120
 ttgcccccta cataaaattc ccttctttat ttccccctaa ttccaaattt ctttcccttt 180
 tttttacaac ccttaacctc taaatccctc gctttaccca ac 222

<210> 31792
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-056-Q1-K1-B11

 <400> 31792

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 acagagctac ccttcagtta ctacagcctt ccatactgtc gtcccagaga tggggttaag 120
 aagagtgctg aaaacttagg cgagcttctg atgggtgatc aaatagataa ttctccgtac 180
 cgtttccgtg taaatgtcaa cgaatctctg tatctgtgta ctacaacccc acttgacgag 240
 gctaattgtga agctcctcaa gcagcgtagc catgatctat accaggtgaa catgattctt 300
 gacaatcttc ctgtgaggag gttcacagag cagaatggaa taaccatcca gtggacaagc 360
 tatccagttg gttatattcc agaaggcact tctgatgtct acatcatcaa tca 413

<210> 31793
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-B2

 <400> 31793

 gcccgccacg cgtaacagaga cacctngagc acagatggcc tgcttcctgt ggtgcgtgta 60
 atttttatgg gcagttttgc cgtgcaggac agacgaccat ttcacgtctg catggccaac 120

ccgttctgta tatgaaaaga aacaggtgct aggttttctt

160

<210> 31794

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-F2

<400> 31794

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cgtcgctcct cgtcgctagc aaagcaacac ccgaaggcct gcgggcgcg gcggtgcggc 120

caggccaccg cgccatgggc aacgctctgg cgggcaggcg gcgcgcgggc aaggtgatga 180

cagtggacgg cgccacgttc cgctacaaga cccccgcggc gcggtgcgcg gcgctgcgcg 240

gccacccggg ccaccagctc ctggagtcgg aggaggtgcg gcggctgggc gtgcgcgcg 300

gcccgctgga ccgcgacgcg ccgctcaagc ccgggaagct ctacttcctg gtgcagatcc 360

cccgcggcgg cngcggcgac gacgaccgc gcgcgccg cgacacgtgg tcgggcgcgc 420

tgcgcgtggg cgcccgcgag cgcttgagg gcctgatgc 459

<210> 31795

<211> 62

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B3

<400> 31795

aaaaaaaa aaannnnnaa aaaaaggttt ggataaaaaa aaaaaaaaaa aaaaaaaagg 60

ag 62

<210> 31796

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-B5

<400> 31796

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gagggagctc gaggcggcgg angaaggcgt tcgccacagt cgctgatttc cctggggaag 120
agatgggtct ctcccttggg aagctgttca gccgcctctt cgccaagaag gagatgagga 180
ttctcatggt cgggctcgat gccgccggtg agaccaccat cctctacaag ctcaagctcg 240
gcgagatcgt caccaccatc ccactatcgt gattcaatgt tgaaactgtt gagtataaga 300
acattagctt cactgtttgg gatgttggtg gccaggacaa gatcaggccc ctgtggaggc 360
actactttca gaacacacag ggacttattt ttgttgtaga cagcaacgac agggaacgtg 420

<210> 31797

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D12

<400> 31797

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cgggtcgctc ctcccagact tcctctacgg ctctcggcg cgctctttcg ctgccacagg 120
agccgccgcg cgctccctg tctctcccc ggcgctgcc gcggctggag caggaggcgg 180
cgtgccgttc tcgatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240
tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccatatgg ccgtcacgcc 300
tctcgacctc gtcaagtga atatgcagat tgaccagcg aaatacaaga gtatctcatc 360
tgg 363

<210> 31798

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D5

<400> 31798

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ggaagggcta cttctgtctc atccagaaat tctggatgct gttgttatcc cgttccccga 120

tgctgaagct ggtgaagttc ctattgctta cgtcgttaagg tcctctgaga gttcttttgac 180
 tgaagttgat gtccagaaat ttattgaaaa gcaggtcgca tactacaaaa aattgaggag 240
 ggtgaccttt gtggacagcg taccaaaatc tgcttcaggg aagatcttga gaagagaact 300
 catctctaaa gtcagatcat ccaagctata gcaagccggc ttctgtgttc agaagctaga 360
 acgacttcca atttgaaaat ttgtcagatt gagcgtaaag gtttacatgt tactgagcgg 420
 agcttatcaa gcaatacatt cagcttgaca caatttgggg gacat 465

<210> 31799
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-055-Q1-K1-D7

<400> 31799
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 gggcctcgcc ctgggcctct cctcggctg cggccaccac cagcaggagc tcaagccgca 120
 acatccgtcg catccgtgtg cggcgttgtt ggagccttct ctgtcgctca gcgccccggc 180
 gaccaaggat gatggcccgga ccgaccgggt gaggaggttc gctgccgtga agagggagct 240
 gcagacgatg gaggggaacg acgacgaggc caccggcagg gtacttgtct actcagtggc 300
 gtcgtcggcg gtggttactg ccgacgacga cgaaggggtgc aacagcagcc ggaagaagct 360
 gangctgtcc aaggagcagt cggcgtgtgt ggaggaccac ttcaaggagc acagcaccct 420
 caaccct 427

<210> 31800
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D8

<400> 31800
 aaaaaaaaaa aaaaaaaata aaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
 tgaaaaaaaa aaataaaaaa aaaaaaaaaa ataaaaaaat aaaaaaaaaa aaaaaaata 120
 aaaataaaaa aaaaaaaaaa aaaaaaaat attatggccc cctcttttta gttccccaat 180

tttatttccc tttcttttca tttttttctt ttttttttat ttctcttcta ttttaatttcc 240
 tttccctttt tttaaaaact ttttctttgt aaaacccttt tttttctcaa ttttaattcct 300
 cttttaatat atctcttttt ccccatctct ttaattactt aaataccccc catctattcc 360
 cttttccaaa atttttccat ccttaattcc ttttttttcc cc 402

<210> 31801
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D9

<400> 31801

cggacgcgtg ggcggacgcg tgggccgcag cgcacagcgt gcccgggccc ctggcgtgca 60
 gtgcccacgc gcttggcccc agccgggccc ccgccccagc cccatggtcg ctctcaagg 120
 cctacgagct cgccccctggc cacaggcagc agggcgcccc cgcatagccc aagcagccct 180
 tgctgaccgt cccctccagc gcgtggtgct cctgccagcc ggcggggcgta gcaagcccc 240
 gtccctccga gcgtgaagat catgccgaac tagccccggc agtccccatg gcaacctatg 300
 ttctgtgtt cgtgggcata tgcagagagg aggaataaat gccacgctcg atcccacctc 360
 tttccaaatc tccgtggcta aattttgtgt ggcctagtgt gtgactt 407

<210> 31802
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E1

<400> 31802

cataaaaaa actaaactat cataatcaca atagcattaa aaaacagata aacaaacaag 60
 aaga 64

<210> 31803
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E10

<400> 31803

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gggggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caagggtgac 120

cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 180

cgccgcgcca tcgtccaggt gtcttacgcc atcggcggtgc ccgagcctct ctccgtgttc 240

gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360

gggcgcta 368

<210> 31804

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E12

<400> 31804

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tgaggctggg tagctccggc gccggatcga gcgtcgtcgt tcctcgaaac ttcaggctat 120

tagaggagct cgagcgtgga gagaagggca ttggtgatgg gacagtgagc tatggaatgg 180

atgatgctga tgacatctac atgcggtcat ggactggtac catcattggc cctcacaata 240

ctgtacatga gggtcgcac caccagctga agttgttttg tgacaaagac tatccggaga 300

agccaccatc tgtcagattc cactcaagaa tcaacatgac atgcgttaat cacgagacag 360

gaatggttga tccaaaggaa agttggtttg ctagegaact ggcagcggga ctacacgatg 420

gagaacatnn ctaccagct caagaaag 448

<210> 31805

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-055-Q1-K1-E2

<400> 31805

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 gcaagggttcg tgctcgtcta caccgtcttc tccgccaccg accccaagcg cagtgtcccg 120
 gactcccacg tcccgggtgtt ggcccctctt ccgattgggt tcgccgtgtt catggtgcac 180
 ctggccacca tccccatcac cggcaccggc atcaaccgg cgaggagctt gggagccgcg 240
 gtcatctaca acaaggacaa ggcttgggac gaccaatgga tcttctgggt gggccactg 300
 atcggcgccg ccacgcgcgn cgctaccac cagtacgtgc tgagagccag cgccaccaag 360
 ctcggttctt accggagcaa cgcctaataa gtccggcgcc gggagctgtg ggcgccaccg 420
 atcgatccaa gtgtagata 439

<210> 31806

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E3

<400> 31806

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 gtctgcacaa atttctggac ctttgtttgt accaattgca gtggatcaca tcgggagttt 120
 acacatcgag taaaatctgt ttccatggcc aaatttaccg cacaagaagt tgctgccctt 180
 caagaagggg ggaatgagcg tgctagagaa gtatttttca aggaatggga tcctcaacga 240
 aatggatacc ctgacagcag taacgctgac aaattgagaa atttcattaa gcatgtgtat 300
 gtggaacgta gatacacagg agaaaggagt actgataggc caccaagggc aaaggatgac 360
 aaggatgagt atagtgaata tagaagatct gatggaaaat ggggt 405

<210> 31807

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E4

<400> 31807

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 aggtgacacc agtaactatc atgtcttaat caaaaca 97

<210> 31808
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-E5

 <400> 31808

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 caaggatccg cgtagaagga ttactgcagc tcaggcttta agtcattccat ggatcagaaa 120
 ttataatgac attaatgctgc cgttgacat tcttatattc cgacttatca aagcttatat 180
 tcgctcctca tctttacgga aagctgctct gagggctctg tcaaagacct taaccgtaga 240
 cgagcttttc tacctgaaat cacagttttc tctattggaa ccagacagga atggatgcat 300
 cactcttgac aatatcagaa tggccttaac gagagaagct actgatgcaa tgaaagaatc 360
 gcgagttcaa gatattcttg tttcgttgag cgccttcaa taca 404

<210> 31809
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-E7

 <400> 31809

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 gtagcatcta ggccatttcc gccgcctcca tctccggcca gcaatggctt cggcgggtgga 120
 gcggcggagg gaggagcacg cgcggagatc gcgttcccca gcacggggca gggagcggag 180
 gggaacgccg ccacgcaggc ggagttcccc agagcggatg aagggttcgc ctgctagggc 240
 acggtctcct gctgcgaagt caagtgcgtc gcatagggac agggagaggt cgccttcgag 300
 ggagaagggtg aatgagcgtg tcaggtcgcc agagtctcct gctaagggtca gcctgttgca 360
 caaggtgaga gaga 374

<210> 31810
 <211> 476
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E8

<400> 31810

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ggatgcggca acgcgcgcct tggcctccgc gggcctcttc cgtggcctcc acggcggcgc 120
ggcgggggac ggcgcctcct ccgagcacgg ccgcgaaccc acaggtcctc ttacgtctta 180
caggaagcta gtgagccaag ggaagctcac gcatgatagt taccaggaaa atgtagcttc 240
cgaattagac aaccttctta gtaggcttca acggtacgag atggaaatgg aggattatca 300
tgacaagctg tacttctggg agaatagcag ggagaaagag cggcgcaggc ttcttgtcga 360
agaagctgaa gataagcagc gtggtggtgt atggattgat gagagaaggg gatttcttga 420
caaattggtt gcgcggagaa gaagaggaag catagaacct ggagttggta agtggg 476

<210> 31811

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-E9

<400> 31811

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ggccgggtgc tgctgccatg tagcccagcg ctccccctc ggcttcaccg gcggcggcgg 120
caacgacggt gaaaactaca tcgggtgcta gctccgacgg tgggtcgtgc cctgttgacg 180
atagggcacg cggggcgcgg gcagcttgta agcgttcgat cggccatgta gggcaactat 240
acatctttgg caggtctcca tcctcctccg tgggagagaa gatggtaatg gagtgcgtgt 300
gtatgtatgt gtatgccag gcgcgcgcgc ccgcggtctg ggcgagtcac agtagagatg 360
caatatcatg tatccagtat ctttcttaca acacaaacag tgaagaaata ataagtaaag 420
tgtgcattgt ggggtgc 436

<210> 31812

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-F10

<400> 31812

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agggggggagg atctaaacta tacctaggtc accttcccac gcattcgatg ttatatatcg 120

tacttaagt tactaaatt gaatcgactg tccacaactt ttacaactgg gaaaactcgt 180

aaaaccactg aacttacatc aactttaaac gacatgcagc attatcccag tttgcgcaga 240

tagcgaagat agccaaaagg gatcgcacct tatcaacatt tgcaac 286

<210> 31813

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D11

<400> 31813

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cgtgattgga gcccgccgcg cctcatggcg catcatctcc tccatcgagc agaaggagga 120

gggccgaggc aatgaggacc gagtaacact catcaaggat tatcgtggca agattgagac 180

tgagctgacc aagatctgtg atggcatcct caagctgctt gagaccatc ttgtgccgtc 240

ttccactgcc ccgagtgcca aggtcttcta tctcaagatg aagggtgatt actacagata 300

cctcgctgag ttcaagactg gagctgagag aaaggacgct gctgagaaca cgatggtggc 360

atacaaagct tgccaggaca ttgctctggc tgagcttgct ccaactcacc ctattaggct 420

tggactggca cttaacttct cagtggctta ctatgag 457

<210> 31814

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A12

<400> 31814

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atggaacccc atttcaactc cagctcaaag gacgacgact cctccagcct tgagaccatc 120

gtgaagtgca aggaagctga ggcgaaactg ttccagaaac tggccgatga tgccaggaag 180

gaggtacaca gctaccggca gatcgtccgc accaagaccc agaaactaga cgaggagtag 240
gccacgaagg tggcaaagct gtgcttccag gagacggacg agaagaggag gaagaaagct 300
gaagagctta aaacccttga gaacctccac tacgactacc acaagatgaa actgcggtatg 360
cagaccgaaa tccaaggctt gtcgaaccg attgaaacca caaagaagat gtgggtatag 420
gtcccttgta acaatttcat gttgctgctg cttaatgctt ccggtatag 469

<210> 31815
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A4

<400> 31815

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aggaggagat 69

<210> 31816
<211> 424
<212> DN?
<213>

<223> unsure at all n locations
<223> Clone ID: LIB3068-055-Q1-K1-A4

<400> 3181

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tcttggtctt gtcctattga aatataaaac tctgatacaa 180
atcaccttta tctgcacgat caggttggcg cctatgcggt ttatatgtgg aggcataagaa 240
gatttttttg gaattctagg gagagttag aacatattgt gcgtgtggtt gtcctgaata 300
tggtactgct ccactntttt tctgcttatt ttattttgcc ttcgtttcaa aaactttctt 360
tgttctatct gcaacatttt ctttttcata gggtatgggc ctcctttcag ggggattgat 420
aact 424

<210> 31817

<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A6

<400> 31817

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ttatttgctc caggaaaccc tggctctgaca caatccaaga attccatggt cttttcaaac 180
gcattatcca gcccacatccg gcggagcctg cagccttacc acctagaaca ggacggagac 240
acatggtact ttgtgaacgg cgcaagccgc gacatgaacc ccacggcttc gaacgattca 300
tccatggaca tgcactcgga cagcccagtt catgactcct actgagcagc ttccttcacg 360
gaaccagaag aacagcatt 379

<210> 31818
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A8

<400> 31818

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gggaatgacc cagatatgct ggaagtaggc aatggtggca tgagcttagc agagtatcgc 120
tcacatttta gcatatgggc tctcatgaag gccctctat taattggctg tgatgtcaga 180
aacatgactt ctgaaacaat ggaaatactg agcaacaaag aagtaattca agtaaaccac 240
gacccctctg gagttcaagg aagaaaaatt ttaggacaag gaaaatatgg atgccgtgag 300
gtgtgggctg gtcccttgct tgggaatcgt cttgttggtg ctctgtggaa ccgttggtca 360
gatactgcta acgttacaat gaaactgcca gcagtaggcc ttgatgggta tgctggctat 420
tctggtaggg atctgtggaa gcatgaaact ctatcgaaa at 462

<210> 31819
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B10

<400> 31819

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cttactacac cccggagtac gaaaccaagg atactgatat cttggcagca ttccgagtaa 180
ctcctcagct cggggttccg cctgaagaag caggagctgc agtagctgcg gaatcttcta 240
ctggtacatg gacaactggt tggactgatg gacttaccag tcttgatcgt taaaaagac 300
gatgctatca catcgaaccc gttcctgggg acccaaata atataatctg tatgtagctt 360
atccattaga cctatttgaa gagggttctg gtactaacat ggttactttc atatggggta 420
acgtatttgg tttcaaagcc ttacgcgctc tacgtttgga ggatctacga attccc 476

<210> 31820

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B5

<400> 31820

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ggtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 180
taaa 184

<210> 31821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B6

<400> 31821

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atcgacctgg cgcgcaagtc cggcaagttc gacgaggaca gcctggcggt ccagtcgcgt 120
ctgctggcca agtccggcat cggcgacgag tcgtacatgc cgcgctgcgt gttcgagccc 180

aacgccagct gcgccaccat gaaggagggc cgcgccgagg cgtccacggc catgttcgcg 240
gcgctggacg agctgttcga caagtgccgc gtccggccca aggacgtggg cgtgctggtg 300
gtcaactgca gcctcttcaa cccgacgccc tccctgtccg ccatgatcgt caaccactac 360
aagatgcgcg gcaacatcct gagctacaac ctgggggggca tgggctgcag cgcgggcgtc 420
atcgccatcg atctggcccc ggacatgc 448

<210> 31822
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-B7

<400> 31822

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actccggagg aggtggaggc ggcggcgccg gtggcgccgg cgggtggaggc ggaggcggag 180
tggctaaatg cactgtgat tgctcacacc atgatcattc accaccaagg caaccgttct 240
tcccgtcacc gcagcttcca ccaccacaaa tctttcttcc tgcaagacca ccgctccctc 300
cgtctggggc ggtcccatth tcgtcacc 328

<210> 31823
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C12

<400> 31823

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actgctaata tgaagcgggtg cagttcttgg tcttgccgct gctcctgagt atagctttat 120
catttttgta tcccctgttg ggaattatth caaggaaggc ttatctccta ttaatttgat 180
cgttgaggat aaatttcacc gtgccagccc tgggtggaact ggagggtgtga aaaccattgg 240
aaactatgcc tcggtactga aagcacaaaa gattgcatag gggaaaggat attctgatgt 300
cctttaattg gatgctgttc atgac 325

<210> 31824
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C2

<400> 31824

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gccggcggcc aaagcccggg ggccctagtg gccccggca gccgtcgtcg gcgcggacgg 180
catccgcgcg cctctggcgc gccctcggg gcgctgtgcc gcaacggtct gcgagctccc 240
catccgaccc gtcttgaaac acggaccaag gagtgtgacg tgcgtgctag tcgacgggtt 300
cagaaacctg agaagcgcaa ggaagctgac gagcgggagg cccttacggg ccgcaccggt 360
ggccgaccct 370
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<210> 31825
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C3

<400> 31825

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cctgcaccac cgcgagcggg gtcgcaactt ctgcctgttc atgccggcgc tggacctggc 180
gggcgggacg ctggacgagc gggcgtgggc gctgcagcgc gcggcgtacg acggggggcc 240
gggcggcggc gcgctgggga cgccggagtt cgtgttcttg gcgcacgtgg tggacatgat 300
gtcgtcgatg cacgtgccgg tcgcgctccg gtcgctcagc tccaccccg tgcgcaacca 360
cttcattctg gttccggtc 379
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<210> 31826
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C5

<400> 31826

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caccctccg gcaa 134

<210> 31827

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C6

<400> 31827

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gggcgagcgc ctgcgccacc tccatcccc tcgtctcggc gccttctgca tgcccttcca 120
agaagaccac cgtcgccagg ttcctgtgct ctacggcgac ttgcatggcc atcagcggcg 180
gtggctgtgg ccgttgctgc gaaaatgatg gc 212

<210> 31828

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C7

<400> 31828

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gggacgcctt gttttgtgga tgcttagtgt ggtgacctgg tgggtggtggt ggtgggtggt 120
cttggcaciaa gttacatgct ggggatagct ataggaggta cctgttgagg tgtgtaagac 180
agtagctagc aaccgtatgc ctaggtttcc tgtttggatg cgtgacatgc cgactttcta 240
gctgcttc 248

<210> 31829

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-C9

<400> 31829

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gttgtgtgct agccagccgg caaagatgag ctgctgatgg taatgatgat gataagaggc 120
cactgctacc ctactacgta ccctcctctt tgtgtgctgc catccgtccc cgttagacga 180
tcgaggagag aataacgcag agctctctgc tcccggcctg tcttctgccg tcccggccgt 240
ttaatttact agtgtgttcg tcctatatgt ttagcagcag caggtgtatt gtgcgggtat 300
gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca aatatgcaag 360
g 361

<210> 31830

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-A10

<400> 31830

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cagagcttat ggacttgtcg atattgtagg ggatgaaatg attgacgagc actgcgatac 120
tgatccagtg tggtttcag aaatgtttaa ggattggtag tgggtggatt tcttgtaa 180
ttatctcaaa cctaaattcg ggttttatgc tatagaaaat agaaatactt catgatgatg 240
aatcatcagg ttaagatcga tctaaaccaa tccattttat atatacatc gacatgccaa 300
cgggttaaaca acttattaga aatgccagaa cagccattcg aaatgctaga aaatcggccg 360
cgcttaaggg atgtcctcag cgtcgaagaa catgtgctaa ggtgtatact atcaacccca 420
aaaaacccaa c 431

<210> 31831

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-D10

<400> 31831

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ac 62

<210> 31832

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-054-Q1-K1-E2

<400> 31832

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cgattgcttt cttgcgncgc ctgcaccccc ttcttcatct tcgtacggca ttcacttccc 120

ttctggcacc cccggcgccg tctcaagacg gttcacgaat tgctacaacc tttccgattt 180

aatcgcgcga cgtctgggggt tcaagatgag tccacctgct tacctctcgt tgacaccggt 240

atcaaagttt gacctgttca cgtgccgaat tgggtgccaat tacgcgtctg gtggatctgg 300

cattctcaac accacgggaa acgggacact cacgctgcaa aaacaaatca cgctgttctc 360

gaaaa 365

<210> 31833

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-E3

<400> 31833

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gtaaagctga aaggaacctt cttgctgaag ttgatagtgc ttacatagtt aagctctatt 120

attctttcca agacgaagag ttcttatatc tcatcatgga ataccttcct ggcggggaca 180

tgatgacttt acttatgcgc aaggacatac taacagaaga tgaagctaga ttttatattg 240

cagaaactgt gcttgccatt gagtctattc acaagcacia ctatattcat cgggatatca 300

aaccagataa tcttctatta gatcgagtg gtcacctgaa gctttctgac 350

<210> 31834

<211> 380

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-E4

 <400> 31834

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 agtcgtgcct ccgctcgtgt cagtcgtctc tccacgcaac catgtctagg aagaagacca 120
 gtgatcccaa tgaggagaac gtcacccttg gacccactgt ccgtgaaaga gagtatgtct 180
 ttgggtgtgc tcacatcttt gcatccttca atgacacctt cattcatatc actgatttgt 240
 ctggggaggga aactctgggt cggatcaccg gtggcatgaa tgtgaaagct gaccgtgatg 300
 agtcgtcacc ttacgtctgt atgcttctgt ctcaagacgt ctcacagcgc ttcaaggagc 360
 ttggcattac tgcactgcac 380

<210> 31835
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-E7

 <400> 31835

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 gatccactga ctgaccgctc atggcgaagg tccacctcta cgtcgccgcg gcctgcgccg 120
 tctctctcgc gctcgccacc ccggccctcg ccggtgacct cgacatgctg caggacgtct 180
 gcccggctga ctacgcctcc ccggtgaagc tgaacgggtt cgcgtgcaag gcgaactttt 240
 cggcggacga cttcttcttc gacgggctga ggaacccggg caacaccaac aaccggcgcg 300
 gctccgtggt gacggcggcc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360
 tcatggcgcg catcgactac gcgccgggcg gtcagaacct gtcgtacacg caccgcgcgc 420
 ccaccgagat ca 432

<210> 31836
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-054-Q1-K1-F10

<400> 31836

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cctgatgctg ctgccatgta gcccatcgct cccccctcgg cttcacccggc ggcggcggca 120
acgacggtga aaactacatc gggtgctagc tccgacggtg gtgctgtccc tgttgacgat 180
agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240
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atgtatgtgt atgccaagg cgcgcgcgcg cggtctctgg cgagtcacag tagagatgca 360
atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt agtaaagtgt 420
gcatngtggt gc 432

<210> 31837

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F11

<400> 31837

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ggattcgagg gctcatggtt aggatggacg ctcttgattc cctacgaaag tggtttctat 180
tggccctaaa catgattgcg caagcactat caaggtgaca ggaaaggaag cttctgcagc 240
ttggattgcc aatagagtga agcctatggt gattaaaaag ccaaggcttg gtgcaagaga 300
aatgcagtat atgttgagg atcaattcac agtcactttg tcatataaca aggtctggga 360
aag 363

<210> 31838

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F3

<400> 31838

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gagatgaacg aagttgtaaa tgaaattagg cgccagaggt gtcataactt gaggttaaga 120
ctatgcagaa ggggcgaacc atctggtgat ttttttccgg tcatttctaa tagaggacaa 180
ggcacctggc gtcttctcct acgaggagtt tctcgtgcat gtccacaggc agatccaaag 240
caagatgacc tgagggccat gcgaatgcaa aggcaacatg aactgagggg caggctggca 300
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tggtattgtag gtacccaaaac gagttcgatt tc 392

<210> 31839
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F4

<400> 31839

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gctcgggcgg atctgatggc ttgtgtgatc tcctgcaggt aagaaaaaga ggaaggcaag 120
atgtctcacc gtaagttcga gcaccgagg cacggctccc tcggcttctt tcccaagaag 180
cgctcctccc gtcaccgcgg caaggtgaag tcattcccta aggatgaccc 230

<210> 31840
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F8

<400> 31840

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tagactcacg gagagaagtt gatgaagtga aggaattaat tgagatagtg agggagtata 180
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aggagttggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300
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caaggatgct t

371

<210> 31841
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F9

<400> 31841

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tagactcacg gagagaagtt gatgaagtga acgaattaat tgagatagtg agggagtata 180
ttcttggtct gaagatggaa ctcaagagaa aggaattgag ggatgatgtg acccgccaac 240
aggagtggc tgcttacttc acaaattgca agcttcagag aattcatatg aggcttgtgc 300
tttctagcgc catggctctt tgcttcaagc ataaaaacta tgctactgca tcacactttg 360
caaggatgct tcttgagaat aaccctcaaa aagct 395

<210> 31842
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-G10

<400> 31842

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cgcgtgggcc gccgggctgt gcgccgaccc cgagacattc gccagaacc gcgagctgga 120
ggtgatccac tcccgctggg ccatgctcgg cgcgctcggc tgcgtcttcc ccgagctgct 180
ctcccgcaac ggcgtcaagt tcggcgaggc cgtctggttc aaggccggct ccagatctt 240
cagcgagggc gggctggact acctcggaac cccagcctg atccacgcgc agagcatcct 300
cgccatctgg gcctgccagg tcgtgctcat ggggtgccgtc gagggctacc gcattgccgg 360
cgggcccgtc ggcgaggtcg tcgaccgct gtaccctggc ggcagcttcg accccct 417

<210> 31843
<211> 287
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-G8

<400> 31843

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tgccaccggg gatatttcaa tcccttattg gatggcttgc ttgtccactg gtattggaac 120

tcggccattc gttggggaat ttatgaaaca aattggccag gccaatcgcc gtgtcttggc 180

tactgatgaa tggctaaggg tccgtgaatg tgatggtgtc tatgcaatag gtgactgtgc 240

tacaataaac caaaggaaag ttatggagga catttcagaa atattca 287

<210> 31844

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H1

<400> 31844

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gaaggagact ctgcgcgtgg gaggtactc taccttgaaa accgagttgc tctagcaaga 120

atactgtttc ctatggaggc aagggtagca atggacattg ctcaagtcga tggaacactg 180

gaattcacc cttgtttctag tgtgaatctg cctgccgaga tacaacggac agttgacctg 240

aacgatactc ctttcacaat gaaggaagaa cacctggctc ggatgagagc cctatccaag 300

acagtggaag tcgggaagcg tttctttccg cgggtgttca aagtacttga cacgatca 358

<210> 31845

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H4

<400> 31845

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aaaaaaaaa aaaaaaaaaa aggggaaagt taaatattag ggtggccgtt ttaaaagatg 120

gcggtgtgct ttctcgtatc ataccattta atctccttta tgttacgtca cataaattct 180

attgtgtggc cgaaatttta caaaatagcg accggtaaaa aactggcgga ccgg 234

<210> 31846
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-H6

<400> 31846

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cgcgcaaggc agcattacgc gccgcgcacc ggaaggcccc ggggagctgc acgaggtggc 120
cccattgcgg catggctgct acggccgccg ccgctggcgt cgagttcccc ctcattggcg 180
ttgccgtggc cacgctcatc gtgacggtcc ttgtcgcggc cgtgatgcgc cgccgccgcc 240
gttcctggca ccaagcgctt ctggtggagg ggaaaccgcg accagatgca agctgcgcgg 300
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<210> 31847
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-H9

<400> 31847

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gtcctcagcc cctccggcac caagatcgtg ttccgcaccc ccgcggggct cggccgcgcc 180
ttcctgtca ccgccttcca gctcgagccc gagggggacc acaaggccga ggacgcgcgc 240
gccgccgncg ncaactgacg tgctctagct tccggcggcg gcggccgtgc gtgggctgct 300
cgatccggta gtggcagtgg ctttgtgaga cagtcgagtc gattgtggtt tccccctctc 360
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<210> 31848
<211> 342

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-E10

 <400> 31848

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 acgggggatgg ttgcatcacg accaaggagc tgggcactgt catgcgctcg ctggggcaaa 180
 atcctacaga ggctgagctc caggacatga tcaacgaggt cgatgctgat ggcaacggca 240
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 aggaagagct caaggaggcc ttccgtgtgt ttgacaagga cc 342

<210> 31849
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-B3

 <400> 31849

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 gatgcagccg cgtctgcccc gatgatgacc accatggcgc cggcgatgca cgatccgttc 120
 tacgcctcga acgggtacgc ggccgacac ggctgcaga tggcgccgat ggctcaccac 180
 cagcagcagc agcaggtttt catgctgcag cagcagatga tggcgccggc gccggcggtc 240
 caccaccoga tgcagatgca gcagaacccc gcgaaccctt tcggcaaccc cttc 294

<210> 31850
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-054-Q1-K1-B4

 <400> 31850

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 cctggagagc tgatcaaagg atatctgtag cgtgttggtta tctgatctga aaggagtg 180

ttgacctcca acgttggttca actcgatttt gctagcgttt cagtaggggtt tttctagact 240
 tgcaaacggt atgctttcgt cagattctga agcgtctgca tcctttcctt tttcatctat 300
 gtactggggc tcttggtgtg gactggaaat tcgttaccac gttgctatgc tggaacatgg 360
 aaaagaaaaa aaagagat 378

<210> 31851
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B6

<400> 31851

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 ttatctagga tcttcgacga taactctgaa gccgtgaagg taaaagctat gcgtctgacg 180
 tgacctagaa ggctgcatcc atcaagcaac gattgatgtt atctattgta gcttaccagc 240
 agtcttgtga cttgtcacct gtgttagaat aaaccgagta gttagtgtat gtagcaacgc 300
 gtagcatata tatatatata tatatatcca ctaatgtcta attgaaccgt agtagaactg 360
 ccttggtatt aactagaaca ttgtatatac ctggaataat tggaagctga gtatcgaacc 420
 aggagttatc cgcacggttt tgcaggtc 448

<210> 31852
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B8

<400> 31852

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 caggctttca gtcagcattc aagcttttcc atggccgaga tggaatagtt cccctttcag 180
 aaagatcata tgtatctgat gaaaaccaca atgagagcat tgatgtcagg actgaacctg 240
 ctctgccgtt taatccattg gctgctagag cagccacaat aagtctatca gcatttggac 300

catttggttt tggcttcttc aacggcaagg gcaaaatgca aaacaagaaa cccaacaatc 360
tatatcagtc ccaccagaag cccaagacac caaatcagtc 400

<210> 31853
<211> 230
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C1

<400> 31853

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aaaggtaaaa tttaaaaagg gggggggggg gcctccaat taaaaaaacc caaatccccg 120
tgcccgcgaa tgcaaaacta ttttttttgt ttaccgaaac caaaattaaa tgcacggggc 180
ttacaacaac aacaccggga aaacaaaac cctacccaaa ccaaacttaa 230

<210> 31854
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C10

<400> 31854

aaaatctccc actcatccca caccctcaa ntcattttac aaatttcacc cttgattcaa 60
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cactttatac ttacatctt acctttcaat cttattaatt cattcattca cttcatttat 180
tttattacct ttcatTTTTT taccttaata ttactattta ttctttccat ccatttacct 240
attctttttt ttatttttct tcaacttttt caat 274

<210> 31855
<211> 233
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-054-Q1-K1-C3

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 ggtttgtttt ttttttattt tgttttaggta atnataaatt ntattttttt tttttttttt 120
 tccccggaaa aaaccacccc cccccccccc ggggacaatt taaaaaaaaa aaaaaccccg 180
 gcccccaaaa accaaaattc caacccccca aaaaaaattt cacatttttt ttt 233

<210> 31856
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C4

<400> 31856
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 aaaaaccatt gttttaccta aaattaagag gccagaagaa aataaacctt tcttgccagc 120
 tcactctttt tcaaaaatgc ccccccaat tagaccttcc caaaaatt 168

<210> 31857
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C7

<400> 31857
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 gcgagttcta tcgggtaaag cc 82

<210> 31858
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C8

<400> 31858
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 gcaattagga accaagtga aatagcagct gcggcagtg tgttcataa tattatacgg 120

atgcacaacg gggatgaagg ttggttgaat agccaaacaa gtaacatata gccagaaact 180
 tttgttgatc ttcctggagg agacaattac tatagcaatg atgttgtgtc acttaatagc 240
 caagtggata atgggaactc tgtagagat atgattgcat tgaatatgtg gaatgattat 300
 agtcaacatc gttcatgata tatcaagaat gtttgaaga ggatctccta ggatgaactt 360
 gatccaagct gcaactatga aaaaaatata cccagatct actactaaca agcgcaagaa 420
 gagaaca 427

<210> 31859

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D11

<400> 31859

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 gccaaaccagc tcgccgaggc ggacgagttc gaggacaaga tgaaggagct ggagagcctc 120
 tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg aagacatggg cgcgcgtggc 180
 ggcatggacg aggaccccc cgctggcagc ggcggccctg gcccgaagat cgaggaggtg 240
 gactaagcgg tttgttgtca gtcttgagcg tgctgcagtt gctggctggc ccagtcgctg 300
 ccgcgagtta tcgtcgtcgg tcggtgcggt gtgtccgctt aaactttatt tgtggtgggc 360
 tgggtactttt gtggtgggta ttttttttgg acctcgtgat agtcggtcgg ttccatgtta 420
 tcgcggctac tggcaaacct taagtgat 448

<210> 31860

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D12

<400> 31860

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 tttgagcaca aagagaagac cgtgacacag actatagcga tcattaagga gcaaatccgc 120
 ctgtggattc taggaggagc aaaacactta gcaaggctgt thtaggtttt aggggaagggg 180

aggggttggt tttgaaacat ttgtgtcacc atacttaatg tctccttcac tagtgtgatg 240
 tacttgtata ttttagtcct cgctgcttca ccttcttttt aatataacag acaattctct 300
 tgccagattt ttttttaaaa aagaaggcag gaacgtgata ctgcccagag gggccagggg 360
 ctccttttag ctagcctaaa tgcgtgtcac tctccttgct gtagctgatt gcagcttcca 420
 tgtgttcctg attgctaaat gct 443

<210> 31861
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D3

<400> 31861

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 ac 122

<210> 31862
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D6

<400> 31862

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 ctgacgcacc gcaagggagc atttagctgt agtgagatgg atatccttta tcagtgtaa 180
 gaggttttga agatccagaa gtttcggcgt atggtgtcat atgctggatt ctactgcttc 240
 acttccctca ttacttatgc ttacacaagc aatacgacaa gggctgggat gtcaagggct 300
 gaccagtatt attcctccta cctgctgggt actgaactac taactgacac tgcaaagctt 360
 tacaaggctg cattgggcaa ttgttttgaa gtagatgaat ggggcccaat agagttctcc 420
 atcatggcaa aaca 434

<210> 31863

<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D7

<400> 31863

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tcctcgtcgg cgccggcggt gccggctcgg tcgtcctcgg caacggccgc ctgcgccaga 180
tcctcggcga gctccaggag atactcgaca aggggaagaa ggtgaaggat ggaggagggg 240
gagacgggga aaccgatctc aacgaggctc ttacctcgca ggtgcgtcgc cttgccatgg 300
aggtccggca acttggtaat tcacgttcaa taactgttct caatggaggt tctgcacaat 360
caggagtatc aggcctgata gtacctgcag caactgtagg agcactgggt tacggttata 420
tgtggtggaa ggggatctcg ttctcagatc taatgg 456

<210> 31864
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D8

<400> 31864

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aaaaaaaaag gagaaaattt aaaaaaaaaa aaaccaaaaa caaaaaaaaaa taaaaactta 120
caaaaatcgg catcctacat aaacaacaca caattataag ttccctttta ttcaacaaca 180
tactccttta ataaatcccc cttaactcaa ttgtctgtcc tctttaaaaa aaacaaactc 240
cctggaaata cccttccttt acccatcttt ctttctttcc aacacttttc ctttttatgc 300
cccttccttt taacctataa tccccgaaaa tacctttttt tccccatttt tctcc 355

<210> 31865
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-D9

<400> 31865

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gatttccagg agagagcgct gttgatcagt tggtagagat catcaagggt cttggtactc 120

caaccctga ggagatacgg tgcataaacc ccaactatac tgagttcagg tttcctcaga 180

taaaggctca tccatggcac aagattttcc acaagagaat gcctcctgaa gccatagacc 240

ttgcttcccg tctccttcag tattcaccaa gtcttcgttg ctctgctctt gacgcatgtg 300

ctcatccctt cttcgatgag ctgcggacac cgaatgcacg cctaccaaac gggcgcccgt 360

tccctccgct ctttaacttc aagcacgaac tagcaaatgc ctctccggac ctgctcagca 420

ggcttgtgcc ggagcacatt agacggcaga tcgg 454

<210> 31866

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B2

<400> 31866

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agcaagtgcc atttatgttc cacctgctca gcaaggcact attgatctcc agagtggaaat 120

cctccatgct gaagaaaaag attacaagac tgcttacagc tacttctttg aagcatttga 180

agctttcagt gcactggaag acccgaaagc catcttttagc ctgaagtaca tgctcttgtg 240

taagataatg gttaaccaag ctgacgatgt tgcaggaata atctcgtcta aggctggcct 300

aaaatatctg ggtcctgatg ttgatgctat gaaagctgtt gctgatgcat actctaaaaa 360

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<210> 31867

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-H12

<400> 31867

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aaccagaaag aggcttcagg tcacgctggg gccgcagcag atgcaacggg taggccgcat 180
cggngcagcc aagcttcccc tgaaaaacat acaggtcccc aggtggtggt gaacgacaag 240
ttctgggagc agttccttac cgagaggccg ggctgtcccg aaacccgaga agcaagct 298

<210> 31868
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H2

<400> 31868

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<210> 31869
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H3

<400> 31869

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attgtgataa cttccaagtt acagagagtg atgttgagac aatcattgat tgggagaaca 300
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<210> 31870
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H4

<400> 31870

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cgccctcttc gccgcctccg cagacgcggc caccttcaac gtcaccaacc gctgcaagaa 180
cacgctgtgg ccggccgccc tccccggcgg ctgcgcgcgc ctggaccggg gcaagacgtg 240
gaccgtgcat gtgccgacgg gcaagggtgca cgcgctggtg tgggcgcgca cgggggtgcag 300
cttcgacggc agcatg 316

<210> 31871

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H5

<400> 31871

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ctacttcaac tcggctaccc caaattaaaa ccaactggctt ttcaatcaaa cgcgatgacc 240
aattgtgtga atcaacgagt tcctataatg ctaggccgat ttactatatc caagcttacc 300
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<210> 31872

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H6

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gggcccgtaa catatgcccc tctgtctcat cttatgaaag gagatttgcc acaaggaact 240
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<210> 31873
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H7

<400> 31873
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 gtgatcccta caagatcaat ccattgatt 449

<210> 31874
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H8

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<210> 31875
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-H9
 <400> 31875

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<210> 31876
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-054-Q1-K1-A1
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 catcaccggg cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg 180
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<210> 31877
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-054-Q1-K1-A10

<400> 31877

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gagtttttgt ccggtcaagc agcatcgagg accggtgcgc acgtctgggc cgactaccaa 180
catttcagta aggatgagca ccgctccacg ttggtgcctg cgtctcaggg gtcggcatgg 240
cagatcttcg tgaagacaca ttactggcac agacgatcac cgcttgaggg tggagtcctt 300
ccgacacaca ttgacatacg tcaaaggcca tagatccaag gacaatggag gtgcattgca 360
cacggaccac gcagcaggct gatcnttcgc cggcaaagca tctggaggat ggtcgcacct 420
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<210> 31878
 <211> 367
 <212> DNA
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<223> Clone ID: LIB3068-054-Q1-K1-A11

<400> 31878

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ctatgtcagc ccagtcaaag gtgtatcgcc gacacggtcg gtcgcaacac ctctccgaga 180
ctgtcattcg atcttctgca agggatgaacc aagatccgat ttcgaggaga gtcaacgggt 240
ggatcttggt caaagtctca agcaccctca caaccgaat tcaaaaataa tataacccca 300
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<210> 31879
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<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A12

<400> 31879

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cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgacccccc 180

cgacgtacac ccctttccca aaaggctcga cgcccaagcc gacccccaccg acgtacaccc 240

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cggc 304

<210> 31880

<211> 162

<212> DNA

<213> Zea mays

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<400> 31880

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aaaaaaaaaa aaaaaggaaa ggttttattt tatatattag gtgtcctttc aaacgcccc 120

ctccataaaa atacaataac ttttaaaaac attcacttta at 162

<210> 31881

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A7

<400> 31881

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gcaagccgac cccgccgacg tacaccctt ctccaagcc tccgacgccc aagccgaccc 120

cgccgacgta cactccaagc cccaagcctt ccacacaccc gacgcccaag ccgacccccc 180

cgacgtacac cccttcccca aagcctccga cgcccaagcc gacccccaccg acgtacaccc 240

cttccccaaa gcctccgaca cccaagccga cccacccgac gtacactccc acaccgaagc 300

cgccggccac caaagccgcc acctacactt cgacgccgtc ggtgttttac acccccagcc 360

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<210> 31882

<211> 189

<212> DNA

<213> Zea mays

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<400> 31882

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gaataaaaaa aagaagaaaa ttctggtttt ttctttccaa aattcgatat aggctgaaag 120

acaatcagat cttttttctc ttcagcgggc agttccatat agaatttgtt agaataaaac 180

aagcgggtt 189

<210> 31883

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H10

<400> 31883

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tggtgttacc gtcagagttg acttgcaatc ttagctcctg aacctggcgg ttaccgtgga 120

tcagagttcc tggtgaattt cacaaaagcc tacttggtcc taatagattg ctgcaaccaa 180

caatattacg accctttcgg gcttt 205

<210> 31884

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F10

<400> 31884

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gaaaaaattg tccaagatt ggatcgcttg ttaaagctca atattgatat tgaagtgtta 120

ttgcttaaaa aaaaacctga aaaaagcaaa aaaaaaaaca ataactaaac aaaattatat 180
 aaaaatgaac acctcacaat gatgacatcc ttgaatgtac taagaccctt ataaagctca 240
 agtgtacaga atacaactct aattctacga aaatggagac catttttgga ggcccatttt 300
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<210> 31885
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-F11

<400> 31885

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 aagtaccaga ccaactccgg gaagattctg tggggtgaga agcacaagaa cctgagtgc 180
 gagatcgaca gagtcaagaa ggagaacgac aacatgcaga ttcagctcaa gcatctgaaa 240
 ggcgaggacc tgaactccct gcagcccagg gagctgatcg ctattgaaga gggcctgcag 300
 aatgggcaga ccaacatgcg cgagaagcag atggactact ggaggatgca cagcacgaat 360
 gggaagatgc tggaggacga acataagata ctgactttta ngatgcacca acaggctg 418

<210> 31886
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F12

<400> 31886

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 agagaaaaat aaaaaaata taactactaa taaaaaaaaa aaaaaataa ataaaatata 120
 aaaaaaata ccaacaaac tctaaaaaag atttctctaaa atacaaaaaa aaaaaaacct 180
 tatttcataa aatcaacaga gttaatatatt attacgacta catgcatatt catctcactc 240
 atctaaaatg ctattacctg aactccctgc aattaatgca gcttatctct att 293

<210> 31887
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F2

<400> 31887

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agagagagag atgattcagc ggaaatccta caattgtgcc tacatgttcc tggatgtttt 180
acatgctacc atgcatgtta ttgcctagct tgattcgatc tgtgcacact gactgccaga 240
accagcatta aaagcgtttg tagtcctaga gggacttacg caagctacgc aaccgaacgg 300
gtacgtacta acgctagcta gtcagccctt cagatggcct ttaactcggg ggcaaaaagt 360
cgttcctgtc caacgaccat ggtaatatgg tcct 394

<210> 31888
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F4

<400> 31888

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ctaacgtttt ctatacagta acctaacacc aattaattgg acttcgttct aaaagctcgt 180
gactgtgaaa accatgcgtt aacaaaaatt aaaggccttg cgcatacata aggcattcgc 240
aaactggcta aatagcgatt aggccccac caatagctat taaaacagt tccacagact 300
gaatcactaa tgggaccccc catgtaccgg cgcataaatc acataatctg agatgtaaac 360
cccagcatg cccggtaaaa ttacaactac cctaccgcc 399

<210> 31889
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F5

<400> 31889

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cgtggacccg tccgccaccg agtccgagat caagaaggcg tactacgtca aggcgaggct 120

ggtccacccc gataagaacc cgaatgatcc gcaggccgcg gagaagttcc aggaactagg 180

agaagcatat caagtttctca gtgaccctac acagcgccaa gcttatgact cacatgggaa 240

agacggcatc tcaacggagg ggattataga tcttgaaca atttttgcaa ttctgtttgg 300

tagtgagctt tttgaggaat atattggtca actggcaatg gcatcaatgg cttcacttga 360

taattttggt gaagatgagc agattgatgc aagaaagctg caagagagaa tgcacgctgt 420

tcaaaaggat cgggaagaaa gacttgca 448

<210> 31890

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 31890

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ctgtttactg gcaaaccata agacggtgtc taacaattca ctcatatgat catctaatac 180

actgttttgc actgtacatt gtgcaattcg cagattgaaa tttgaatata ggtacaagga 240

tgggtaaaca ctggagatag ctagcctaaa gatgaatttt agatatatta tgtatgagat 300

agctagccta aagagggagt tttagatata ttctgtagtt gatattcgag tggatcatgca 360

gttacgatcc ctcatgttta gagataaatg ataggaagac accttgtctt tcgntcatgt 420

ttaggttgaa gtttagaaat tacgatgtat at 452

<210> 31891

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G1

<400> 31891

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caatatcatc caataacatc atagtatcta cctcatattg tacaagaatc cgacatcgca 120
gaaattacaa aatgaaacac tctgaagaat taatacaatc ata 163

<210> 31892

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G10

<400> 31892

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ggggtacccc tgttggtccc tttggttgc cccgctatga aacgagacga gagaagaatg 120
agcaagggtt ttgttcgcaa aaaaaaagac aagacgat 158

<210> 31893

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G11

<400> 31893

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ggccagggtc ctgatcttga acggggccag cgtggacaag gcgagcctcg acgacgacga 120
cggctcaggt tcaggctccg gctctggcgc cgcgcggcta gcaatgtcgc ccaccgagct 180
gcgcgagctg ctgcagaagc gggagctcgg ccaactcgata acgatccacg actcgccagc 240
ggtgggtccc aacggcggct cgtcggggca cagccgtcca ggcagattac agagcacaag 300
ttcggacagc cagcgtggc ctcgggtgag cgtatacaag ggccaccctt tcctcagaaa 360
ccgcacctct gaagctggca agctgatcaa cctaccaggc accatggaag aattcaaagt 420
catcgtcggg gagaaactga 440

<210> 31894

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G12

<400> 31894

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tggcagcttc ctgatcttga acggggccat cgtgggtcaaa gccagcctca acgacgacta 120
cggatcatgt tcatgctcca gctctggctc cacgcggcta gcaatgtcac ccaccgagct 180
gcgcgagctg ctgcagaagc gggagctcgg cactcgcata acgatccact actcgccagc 240
tgtgggtccg aacggcggtt cgtcgggtgca cagccgtcca ggcagattac agagcacaag 300
ttcggacagt cagcgtctgc cttgggtgag cgtatacaag ggccaccctt tcttcagaaa 360
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<210> 31895

<211> 286

<212> DNA

<213> Zea mays

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<400> 31895

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gttacatgtc actgctttct ctacatatta tacttccgtc ctgacaatcc tacacatacc 120
tgatcactgg caaaccatat cacagagtct aacaattcac tcatatgatc atctaataca 180
ctgtattaca ctgtacattg tgcaattctc agattgaaaa ctcaatatat gaacaacgat 240
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<210> 31896

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G3

<400> 31896

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ggagctcaag atccggcaaa aggttaacca cagcaacctg gtgaagctgg aggggttctg 120

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catcgactcg gcgacgggcg actgctacct ggtgtacgaa tacgtggaga acggatcgct 180
tgacctgtgg ctgctggacc gcgaccacgc ggggcgcctg aactggcgcg cgcgccttca 240
catcgcgctg gacctcgccc acggcctgca gtacatccac gagcacacct ggccgcgcgt 300
ggtgcacaag gacatgaaga gcagcaacgt tctcctggac gcccgcatgc gcgccaagat 360
cgccaacttc ggctctgcca agacggggcca caacgccatc accacgcaca tcgtggggcac 420
ccaggggtac atcgcccccg agtacctcgc cgac 454

<210> 31897
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G6

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gggcagcact acaagccgag acttaaaaca aacaacagag ctcaaaccac gccatcgctc 120
tcaatacata aacataagac aacatcatatc tattcccgctc ctatcgatta ggcattataa 180
atcgaggtaa tgaacaatac tcacacccgg gagccttcat ataaaatagt gacatatcaa 240
attctaatag ttagaaacga ctatcacatg gtaaagcctg atcaaaggaa attatgat 298

<210> 31898
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G7

<400> 31898
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gcgtgctttc atccgggcta ctctgatcaa attctagagc ccaaaccatag ccatcggtcc 120
ggatacatta ccatccaata actctatact atcgccctcc aattcacttg cacttcggca 180
ctggcataat cattactcgg ttcaccgacg gctattcatc atctatcttc agaccogaat 240
gctcttg 247

<210> 31899

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H1

<400> 31899

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atgcaaccag caaccatcgc caagcttatt tgctccagga aaccctgcgt tgacacactc 180
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240
ttaccaccta tagcaagacg gtgatgcacg gtactttgcg aacgggtgcaa gccgcgacgt 300
gaacccacag gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360
ctcttactga gcagctccca ccaaccaacc gcaagagcaa cacttcaagt gtaagaagtc 420
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<210> 31900
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-F1

<400> 31900

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gcagccatga gatggtatgc atcggtagcc tctgagggc gctggtcctg agtgcggcgg 180
cgtctgcggg caggcgccgg gggcccagga tctgtgtgg ccacgaggcg gatgtacgcg 240
tgactcctcg gcacggacac ggctggcgca gattccgggc agtcacggga aggatgatgc 300
tggaactctc tgactgtgcc tctgctgccg ccgacgcgga gacggggcaa gtgcagccgc 360
agcgcgcgc ggtgggggcc gtgcccctgg cgcacgacgg cggctacgcc agcggcggat 420
gggagagaga agatggcaaa ctgagttgtg gataactcaag t 461

<210> 31901
<211> 278
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D11

<400> 31901

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120
gacagaataa tttaaaagaa caaagctaac atacacatca aactaactcc aaaactcttc 180
aaaagagtaa acaaatataa attaattgac caaatTTaaa aaaagagtga aacttaaaaa 240
accctgattt caccaaacta aaccccatgc aacgaaaaa 278

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<210> 31902

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-053-Q1-K1-D12

<400> 31902

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gatccggcct cccctctctc cgcgcccacc tcgcatcctc cgaatccgcg gccgtcgctc 180
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caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcctc acagcagcta 300
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agagcccggt gttttctcaa ttcataaagg actngtcagt tccaaaagcg accagngtga 420
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<210> 31903

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D3

<400> 31903

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ggcggcacgg catggggggc acggcggtact ccgtggcgct cctcgggggc gcacgcctgc 120
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 caccgaggct ctacctgcac cgtgccaggg ccgcttccga ggacaagtcg gcctacggcg 240
 gcgacgagct catcgaagac ctcaaggcaa agtgggacgc cgctgaggac aagcccaccg 300
 tcctcctgta cggcgggggc gccgtcgtgg cgctatgggt gacgtccgtt gttgtcggcg 360
 ccatcaacgc cgtgccgctg ctccccaaaga tcctggagct cgttggcctc ggctacaccg 420
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<210> 31904

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D4

<400> 31904

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 atcctgaaga ccgcactcat cacaccagca ccttgtagca ttaccgcac c aaccgacacc 180
 atcaccacct taacctacaa actcaccgct aactcaatg cacctcccca acttacatat 240
 ccatgacacc tactttctctt gcctacatta gtcatttgca cacactcagg caaccttgga 300
 cacctgatac gacaatc 317

<210> 31905

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D5

<400> 31905

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 gtattgtcgc atgaggccct tacgaaatgt tacatgggtct gtttggcatc aataatgcat 120
 gtttaacctg agcttggcga tgggttatac agaacggaaa ctctgtttgt gaatagaaaa 180
 tcatgaaggg aaggagttga ccggaccctt acttgtacgt ctccccggct gtgtaggtag 240

attgtcagtt ggggttccga agtactctac tcatacgtgt gatatgacagt ttatttatga 300
aacaaaatac gcattgatcg tt 322

<210> 31906
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D8

<400> 31906

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cggccgcaag gccgggctgg cggaccggct ggcgaggac aagggcaggc atgcgaagct 180
ggcgtgcccg ctctgccgta ccccggcgcc cgacatcaag tccatgcaga tccaccacta 240
ggcgcgccat cccaagctcc cattcgagcc ggagaagcta ctcaacctgc actcctccgc 300
ccccgtgct gctgttgccg acgacgccgc cttcgccctcc gctgccgagg ccaccaccta 360
ctagcccaag ccctgcg 377

<210> 31907
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E1

<400> 31907

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agtcatacata taagagagaa ctccgttatg cttgacccta tgcccactct cgaaacaaac 120
tcgacacgtg acaaagaatt ccgacccgat cggcccaagt taaataccac tactattaac 180
aatgagttac ttatcccccg gttccgaagc gggacatacg tcccatatct tgaatacaag 240
ggccatccta attgcgccca tccgctcgga ctacatctac acgtctaaag ttattctcat 300
actctacata tagtaaaaga caacacaggt gtccttagat gatcacatcg acaacacaaa 360
tcccttggc 369

<210> 31908
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E10

 <400> 31908

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 tacttctcta tcatccgacc taattctact tatctagcct ctcttctaca aattttaaate 180
 ctatgcaatc tttcaccttt accaacttta aatcccttga tacacctaac gttaccatct 240
 atctctttaa tcccatttat gcattcacct atcgccctac catataacga acccattctt 300
 acttgcgaaac cttac 315

<210> 31909
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E11

 <400> 31909

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 cgagatccat taagcagcga tcgatccaga caactgatac cacactaatc aaactctaca 120
 tgctcgcaaa ttaccaatt cttacacatc taggtctaca taacaaatat caataccatg 180
 cacattagac cctgacaatc ataataacc caatctaaat gacttaaata ggatccattg 240
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<210> 31910
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E12

 <400> 31910

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tgggcggcgc ttgcgggtac ggcaacctgt acagcacggg gtacggcacg agcacggcgg 180
 cgctgagcac ggcgtgttcc aacgacggcg cggcgtgcgg gtccctgtac gagctgcggg 240
 gcgacaacga cgggcgggtgg tgccctgccg gcaccatcac cgtcacggcc accaacttct 300
 gcccgcccaa ctacggcctc cccagcgacg actgcggctg gtgcaaccgg ccgcgcccgc 360
 acttcgacat ggccgagcgg gccttcctcc gcatcgcgca gtaccggccc ggcatcgtgc 420
 ccgtcgcgtt caggagagtg c 441

<210> 31911
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E2

<400> 31911

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 gggccgccaa gaaggccatg tccaggagct ccaaggccgg gctccagttc cccgtgggaa 180
 ggatcgccag gttcctcaag gccggcaagt acgccgagag ggtcggcgcc ggcgcccccg 240
 tctacctcgc tgccgtgctc gagtatcttg ctgctgaggt tctcgagctt gccgggaacg 300
 cggctcgtga caacaagaag acccgcatcg tcccgcgcca catccagctc gccgtccgca 360
 acgacgagga gctctccgcg ttgctgggca cggtgaccat cgccagcggc ggtgtcatgc 420
 ccaacatcca taacctgctg ctgccaaga agtctggcgg c 461

<210> 31912
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E3

<400> 31912

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 tggctctcata gaagggggac cccgttgatc ttgactctaa tacgacttgt aaaatgactt 120
 gagacctgta aaataagcgt gagcctaagc tctcaagtca aataccacta ctactaacgt 180

aatattactt atttcgtgaa tcctaagcag ttcaccgtcc gtcccttttg ctacaaggcc 240
 cgggtctcttc gtgccgatcc ggactaacta catcttcatg tctaaaagca tgctcaatac 300
 tcacatttat taaacgataa cacaggtgtc ctaacatgac catatcaaga acagatttct 360
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<210> 31913
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E4

<400> 31913

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 gctcaaccgc tacatcaggc ataaccgtac cgtagctgcc gatctaggac tcgctatcag 180
 aactgaatcc tatgcataca ggacctagac agacatccaa aagggtgaga cgctgaaaga 240
 gaccatggat ctcttccac acatcgctac attctgtcga gatgctgcc ctaacgaagc 300
 cctcgatacg aggtaaccag agaagcgcca actgactatc ccatatggcg gtaaggtcct 360
 tcagttacat gactttcctg ctgataatgc acacgaccat gatcaaat 408

<210> 31914
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-E6

<400> 31914

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 aactatgacc attagctccc aagtcaaaca ccactacttt taacgaaata tcactcattc 180
 ccttaatctc aagcattaca cctaccctcc ttt 213

<210> 31915
 <211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E8

 <400> 31915

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 caggcagaac ggtgccgcgg ctgccgatct cggcctcgct atcagagctg aatccgatgc 180
 aaagaggacg tgcacggaca tggaaaaggg ggagacggtg aaggagacca tggatctctt 240
 cccccagatc gctggattcg gctcggaggc tgccacgaag gaagccctg atgcgaggga 300
 gccagagaag cgccaactga ctatcttcta tggcgggaag gtccttgtgt tcgatgactt 360
 ccctgctgag aaggcaaaag acctgatgca aatggccagc aagggttcat ccgtagccca 420
 gaacctggc ctgctgcctc cttccacagc tgc 453

<210> 31916
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-E9

 <400> 31916

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 gagatgcgtg atgggaccat ggttacggac catgatgatg acgctgcgtt ccatttagct 120
 ctctgctgcc tgcttctgta ttaaagaagt ggttcgatgt ctcagaactg aatacgatgc 180
 aaagaggacg tcaacagaca tggaaaaagg gggagacaga gaaagagacc atggatctct 240
 taccacgat cgctggattc aaaatgggag gctggctcta aagaagccaa tgttacgaag 300
 gagccataga agcgccaact gactatatag tatggcctaa atgaacttgt gggccatgac 360

<210> 31917
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-053-Q1-K1-C7

 <400> 31917

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 aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cgcccccttt 120
 atcgtatcca ttcttacttc cccttccttc caacttctta cctcttcttt attgccccct 180
 aatttcattt cactgcccgt ctttttacia cttcttcctt tgcaaaccct tgccttttcc 240
 caacttattc ccctttcacc acatccccct ttcgccaatt ggcttaatcc caaaaaccct 300
 ctaaccgatc gcctttccca actttttccc atcctaaatg ccaaattggac ccctcctttt 360
 accggccctt taaccctctc tgttttggtg gttacccc 398

<210> 31918
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-053-Q1-K1-A3
 <400> 31918

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 agagctataa ctctaaaagc atgcgagact aaccgagaca acaatgctac tagctatgtg 120
 tgtttagagc gagcgaggga aaaaagaaaa catctaagat atactccaac atcttcgttt 180
 gattaaccgg ccagtaaaag ccatgggtac taattataga gcggtcattt ctctagtact 240
 cctcgtgtgc atcgtatgcc gatcgacctt ggggtgccgt gaaactgacg tttaacagaa 300
 tcgctcgtca gtccctttga tgtttgtgtt cggtgattcg ctggtcgatg tcggaaacaa 360
 taacttcctg ccgacttctg caccctgtgc 390

<210> 31919
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-053-Q1-K1-A4
 <400> 31919

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 gaccggggag tgccgtgccg gagatcctga aaagagacac acaccacaca ccacggttgc 120
 gcgcgagaag tccgagacat ggacaggag cagatgagga tggccatcct gaaccaagaa 180

cggatcttca gacaacaggt acacgagctg caccggctgt accacgcca gaagcagctg 240
 atgacgcagc aggcgcagac ggttcctgct cggcggtcg tcgacgccga gccgagaccg 300
 agaccgacgc agctggatat ctggtgcggc gagagggcga cagcaagtcc tcagcagcac 360
 atcatcagct tccacgaggc cgcagcacct gcggtgcgc tggccaagga atgcaacctt 420
 gagctgacac tggcgaccgg ccggccaagc agcagcagc 459

<210> 31920
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-A5

<400> 31920
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 ggcaacaagc tactagctat gtgtgtttag agcgagcgag ggaaaaaaga aaacatctaa 120
 gatatactcc aacatcttcg tttgattaac ccgccagta aagccatggg tactaattat 180
 agagcggtea tttctctagt actcctcgtg tgcctcgta gccgctcgtc cttgggtgcc 240
 gctgaaactg acgttgagca gaagcgcctg tcagtcctt tgatgtttgt gttcggtgat 300
 tcgctggctg atgtcggaaa caataacttc ctgccgacgn ctgcacaccg tgctgcatct 360
 gcgtacggca tcgacttccc ttctggcacc aacggcgccg tctcaagacg gttcacgaat 420
 ggctacaacc ttgccgattt agtcgcgcg 449

<210> 31921
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-A6

<400> 31921
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 ggtccggccg gccgcgaaga gcgcaatcaa gcaagacaag atggtgaagc tcgccttcgg 120
 aagcgtcggc gactccttca gcgccacctc catcaaggcc tacgtggccg agttcatcgc 180

caccctcctc ttcgtcttcg ccggcgtcgg ttccgccatc gcctacgggc aactgacgaa 240
 tggcgggcgcg ctggaccggt tgggcctggt ggcgatcgcg atcgcgacg cgctggcgct 300
 gttcgtgggc gtgtccgtcg cggcgaacat ctcgggcggc cacctgaacc cggccgtgac 360
 gtttcggctg gccgtgtgcg gncacatcac catcctgacg ggcgtcttct ac 412

<210> 31922
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B1

<400> 31922

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 gcgcaatctg ccgtagcggg cgccgtggtg gccgcggtgc tgctgctggc agcggcgggc 120
 acgacctcag aggcgcgtcat cacctgcggg caggtgagct ccgacatcgc gccctgcctc 180
 tcctacgcc gcagcacggg gtccggaccc tccgcgtcct gctgtagcgg cgtcaggaac 240
 ctcaagagcg ccgccagcac cgccgacgac aggcgcgccc actgcaactg cctcaagaac 300
 gccgacaggg gcgtcagcgg cctcaacgcc ggcaacgccg tcagcatccc ctccaagtgc 360
 ggcgtcagca tccctacac catcagcacc ttcaccgact gctccaaggt gaactaaaac 420
 ctataccacg cgcgac 436

<210> 31923
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B2

<400> 31923

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 gcccatcttc acatcaatgt tcagaagtta tgtgcgctat gagatttaaa ttatgagctg 180
 ccagattggt ttgt 194

<210> 31924
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-053-Q1-K1-B5

<400> 31924

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acgacctcgg agggccgcat cacctgcggg caggtgagct ccgccatcgc gccctgcctc 180
tcctacgccg ggggcacggg gtccggcccc tccgcgtcct gctgtagcgg cgtcaggaac 240
ctcaagagcg ccgccagcac cgccgccgac aggcgcgcgcg tctgcaactg cctcaagaac 300
gccgccaggg gcgtcagcgg cctcaacgcc ggcaacgccg ccagcatccc ctccaagtgc 360
ggcgtcagca tcccctacac catcagcacc tncaccgact gctccagggt gaactaaaac 420
ctagaccacg cgcgacgacg gccgcctgat 450
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<210> 31925
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B6

<400> 31925

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gcgtgtcgat ggccaacctc tgcaagctgc acggatggag agtcagggag accccgcgcc 120
gcgtcttcga cgccgtgctc ttcattcaacg agctcgacat ccttgacatc cgctggcacg 180
agctgagccc ctacgtctga gagttcgtgc tgctggagtc caactcgacc ttcaccggca 240
taaagaagga cctccactac agggagaacc ggcagcgggt cggcttcctc gagtcgcggc 300
tgacctacgg caccatacgc tggaggttcc tgaatggaga gaacccgttc gtggaggagt 360
cttaccagag ggtcgacatc gaccaggtga tcaagatacg gggcatcgag gactacgacc 420
tgctgatcat g 431
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<210> 31926

<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B7

<400> 31926

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gcccgccaca gtctctctcc tccgtcgccg tcgttcttca gcggcgctt cgtttcccca 120
gcacggtacc ctagcatcag cgattcagcg ctcaatacaa gccaccgcg ccatggcgcc 180
cgcaccggca gctctctccg cggccaacgc cctctcgctg ctcgcgcccg ctagagtctc 240
ctccggaagg tggagcagcc tgtccgtctc cgtctcagcc cggcccgta cgggggtggt 300
gtctgtcgcg gcggccacgg cgagaggag gctggtcgcc gcggcgccgg cgacggagat 360
ggcgcccgcg gcgagcgggg aagaaggag caagccgttc gtggaggaga tgcgggcggt 420
cgcgatgaag ctccacacca aggaccaggc c 451

<210> 31927
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B8

<400> 31927

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gccatccctg aaaaactggg cgctgaaaca tggagcgcac tcttcgcat atcacatctc 120
ttaactatga ctctggtcc gcgaaaatgc tttgttttaa tcaaactga caaatgcact 180
cgtttcatca agcatttaga cggtcgtttc actcccgtg aaagaactac agggcgacta 240
tcccgcgca ctttgtttcg gtcaagctga gtctctcac gcctatccat gccttactca 300
actgctgacc tgtaacatcg aaacggtctg ctgtacgtcg agtggtacgc ttgagcaaac 360
aatctacagc ctattcaccg atcaccagtg cccaattgcc ttgccactcg ctgagcattg 420
accgcagct atttaccttg cgcacacgac acccgatat actccaactc gggcgtttc 479

<210> 31928
<211> 461
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C1

<400> 31928

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cccagcatct acttcaagct atacaacatg aagggggaca tcgccatgtg gcataactcc  180
ttcgactcct gctacgacaa gctcatcctt gtcaccacgc ccacctagtg ctactactgc  240
atcgacccca acaccgtctg atacgtgccc atgcgctcct gcgtaactgc tcccagcccc  300
aaatacagga agctggatct caacgccacg cccaatctac cccagatgct catcgtcacg  360
ccggatctca ttatcctagc tcctgtcagc atcgcttaca ctttcaaaca tgacgacgcc  420
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<210> 31929

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C12

<400> 31929

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ggaaaaaaaa aaaaaaaaaa aaaaadaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  120
aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaata aaacaaaaaa taaaaaaaaa  180
aaaaattcac tagaaaaaaa attaaaaaaa acaaataatta gaaaatcaca ataattattca  240
aaaatt                                             246

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<210> 31930

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C2

<400> 31930

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cactaatcac gggactataa cattgcgagc actagcccaa catcacattg catcaccata 120
 ctaaaatacc gtccaacttc ttcctcataa tcaaccacac gcattccaat agcacctacc 180
 atttctaaat cagctattcc actcccgaca aacgcaccct 220

<210> 31931
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A2

<400> 31931

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 tcggaagcgt gagcgactcc ttcagctcca cctccatcaa ggcctacgtg gccgagttca 180
 tcgccaccct cctgttcgtc ttcgccggcg ttggttccgc catcgccctac gggcaactga 240
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 cgctgttcgt gggcgtgtcc gtcgcggcga acatctcggg cggccacctg aaccgggccg 360
 tgacgttcgg gctggccgtg ggcggccaca tcaccatcct gacgggcgtc ttctactggg 420
 tggcccagct gctgggcgcc accgtggcgt gcctg 455

<210> 31932
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G2

<400> 31932

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 aatttttaaa aaacaaaaaa tggtgaaata taaggagatt tatcatatga cacatacatc 120
 atatattaac aacttatacc aatctacaca aactttgatg cttcaactat tt 172

<210> 31933
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G3

<400> 31933

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aacaccctga agcccggaga tgtcatccag tgccgtgaat gtggctaccg catcctctac 180
aagaagcgga ccgcgccgat tgtccaatat gaagcgcgct gaagagtga gacaagggaa 240
aacactgaag atggttgatc tattactcgc cacattacct atgtaaacag tcttctgggg 300
gaaatgaaaa tgtcagactt aacgtttgta tgtcgtgtgc cttctttgaa cctgagctgt 360
ataatttgta acgcttgaac tggggactga tttgagaact gagacactgc agcaatatgt 420
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<210> 31934

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G4

<400> 31934

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tgттаacata tctgacctca caacacacct ttagccctta catgttattc actaccgata 180
atgccactaa cgcacacctc acaagaacct gacacgctac gattcccca tatcaaactc 240
cctaatacgt gaactcacgg taaaacactt aagactctac tatcattact atgctcatta 300
tcattctaca catgtcatgt catttcaata aaaatgtact aacttaacag ctcaataata 360
tcttctct 368

<210> 31935

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-G5

<400> 31935

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 gtgtgctccc gttgaatgca catgaggacg ccgacgagtt ggtgtcagag gttagcctta 180
 ctgccatctc acgggggtgc cctgctctcc gttcgatatt atacttttgc cagaccatga 240
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 gtataatggg acggcaccag ccggaccatg cgactggnga gcctatggat gaaggattcg 360
 gtgccatcgt tcagaactgc agcaagctta ccaggctatc caggtccggg caacttactg 420
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<210> 31936

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G6

<400> 31936

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 ccaccttaca atgtcttccg cacggatcgg cccagcaagg ccagaccttg gatccaaaat 180
 gagggacggc gccctgcttc cgaccacgg aatctgtaat ataacgttga aactagaggt 240
 gttctacttg cgcccggatg ctaccactta tcctacacct gtcatgtcat ttcacaaact 300
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<210> 31937

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G8

<400> 31937

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 ccacatcttc ccatacatat ccgcatctat aaacccatag gatgacacac ttccaaactt 180

ccatcctaca caataacctca ttttccatcc acatactgog tattcctact tccctaccaa 240
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aacagcttcc tatgattcct ctaattacat ccac 334

<210> 31938
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G9

<400> 31938

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tgggtgttga tatgtgcaag ggagtgcagt atctcaatga aatcaaggat tctgttgttg 120
ctgggtttcca gtgggcatcg aaggaggggtg cactggctga agagaacatg cgcgggattt 180
gcttcgaggt ctgtgatgtc gttcttcatg ctgatgctat ccacaggggt ggtggccagg 240
tcattccaac tgccaggagg gtcatttatg cttctcagct cacagccaag ccaaggctgc 300
tggaaccagt ttacctggtg gagatccagg cccagaaaaa tgcactgggt ggcatatacg 360
gtgttctgaa ccagaagaga ggacatgtat tcgaggagat gcaaaggcct ggtaccccg 420
tctacaacat caaggctttc cttcctgtca tc 452

<210> 31939
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H11

<400> 31939

cccacgcgtt cgcggacgcg tgggaaaaaa tgaaaaacga acggatcaga aaaaaagagc 60
gggcgcttgt cagccgctat gct 83

<210> 31940
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H2

<400> 31940

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gtctccaagg tgacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120
aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240
ttaccaccta gagcaagacg gggatgcagg gtactttgcg aacggtgcaa gccgcgacgt 300
gaacccacag gcttcgaatg attcgtccat ggacatgcac tcggacagcc cagctcatga 360
ctcttactga gcagctccca ccaaccaacc gcatgagcag cacttcaagt ggaagaagtc 420
tgctgtcaca gccttcagag gcctagtagt aatattccaa ttaacaccct tcatag 476

<210> 31941

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H3

<400> 31941

tgcacacgta cgctcacaca tccagcctct cattcaatat ggaggtgaca atgcatcagc 60
gtgtccaagg ggacaatacc ctagccaaag cactgcaccg acaatgcaca ttcccaacac 120
aagcaaccag caaccatcgc caagcttatt tgctccagga aaccctgggt tgacacagtc 180
caagaattcc atgggtctttt caagcgcatt atccagcccc atccggcgga gcctgcaacc 240
ttaccaccta gagcaagact gcgatgcaag gtactttgcg aacggtgcaa gccgcgacgt 300
gaacccacag gcttctaattg attcgtccat ggacatgcac tcagacagcc cagctcatga 360
ctcttactga gcagctccca ccaaccaacc 390

<210> 31942

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H4

<400> 31942

cgaccgactc gtccgtccag catccagcaa attcaaagct gctatagaat cacaatgaca 60

cacatgtctg aaaactgata acaactactg attaactaat gcaccgacaa tgcacattta 120
acaacgacat tgccaccact taccttaatg cgaactaatg cactacagtg ctaccagcc 180
cagacacagc tcattagggg catgctcctg gtaagcacag tatactttcc cagcactggg 240
agccatgcac gatacgacct agatccagac agctaactaa gtctaattgc taacttggct 300

<210> 31943
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-H6

<400> 31943
cccacgcgtc cgacaaactc aaagctgcta agaatacagct cagacgcata cccgaagact 60
aatcacaact actgattaac taagggtgtg tttggaacct ttaacagggt tgtccagcct 120
taccttaatg tgaattaagg cagaggtgc ttgccagccc aggcaagcta atttggttct 180
tcctcctggg cagcaaggaa aacttttcct gcaactggtg tgaggcagga gaagtccagg 240
atccaaacag ctaactaagt ctaatttctt gcttggttag gcaaaagatt gtttgccgaa 300
tcttccaaac atgctctaag gcagtaatgc ttatctctgg caagaacttc cttntttttt 360
gaaacgaacc aggcaggaga gctgccgatt atattaat 398

<210> 31944
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H7

<400> 31944
cccacgcgtc cgacaaactt aaagttgata tgaatcatct gatactcatg gccctaatac 60
tgagtgcacat ctactgaata actaaacata tgttccgaac ctataacaac tttgtacatg 120
actaccttaa tctgaattat cggaccaggt actccccacc ttagacacgc taattaggtt 180
cttgctcctg ttcagaaccg aaaactattc ctgatctcgt atagagtcac gataagtcaa 240
ttatccacac aggttactaa ttatacttta cttgctaagc tatgctaaaa attgacagct 300

cgaatcttgc atacatgctc

320

<210> 31945

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-H9

<400> 31945

ctcacgcata cgcccacgca caccctagct gtttcacaac tcgcggtcta aagactgacc 60

agtcaccatt agcaagtgc tctaccatgg cgtcactaat atactatctc ctgactaacc 120

aaactccaac tcttcgtaga gtacagatac acgcacctat tcaacgtcat gaaccactgc 180

aataccacgc taaga 195

<210> 31946

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A10

<400> 31946

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaagaa aaaaaaaaaa 60

aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaattctg ctatcttttt aaaaacccca atttaattac cccctctttc 180

ctaacaaaaa attttcttta aactacccaa aatttaatta aattcatcct gtttaaacaa 240

ctacttcctt aaaaaaacct ttttttacca aaattaaatc ctttcaattt atttcccctt 300

tt 302

<210> 31947

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A11

<400> 31947

cttgctgaag ctgaactgct gatccgtctt ccaagctgtg gtgtcggccc ctgagttctg 60

atccaagatg tatctccagt attacatcaa tgagaagggg gacaaggtct acaccaccaa 120
gaaggagtca cctcttgggg tgccgacgca gtctgtcac ccagctcgct tctcaccaga 180
tgacaagtac tctgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240
gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300
actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360
tgctaggcac tactatgaca tctcagcgca ttcaggcact atatgtaatg ctatgtgttt 420
gacaggtct 429

<210> 31948

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-A12

<400> 31948

cttgcgaag ctgaactgct gatccgtctt tcaagctgtg gtgtcatgcc ctgagttcta 60
gtccaagatg tatctccagt attacatcaa tgagaagggg gacaaggtct acaccaccaa 120
gaaggagtca cctcttgggg tgccgacgca gtctgtcac ccagctcgct tctcaccaga 180
tgacaagtac tctgccagc ggtacctgtt gaagaagaga tttggacttc tgccaacgca 240
gaagccagca ctgaagtact gaagcttcaa ctttccaacc atggatgtgc agtttgtgtc 300
actgcttgat gcttgttggg tggaatgtag aataggtatc tgaggaaaca tatcaaacac 360
tgctaggcac tactatgaca tctcagcgca ttcagtcact atatgtaatg ctatgtgttt 420
gacaggtct 429

<210> 31949

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G12

<400> 31949

ccaacacgga tcatgccaac cacaatccgt actccaaacc ggccaccaca gacccaaaca 60
gggtccatga tcgagtgcga tgcacccgc atcatgaaga catcaacgag ccccggtgct 120

cctgggtcca gtgctcatca ccggcacctg cactgactga agcacaacac gcccggcac 180
tgcttactag gccgtaacac cagcgcttca ttctaccact atacacaccg gcggaacgcc 240
aggtcattcc aactggcaga accgccattt atgcctcgta tctcacagcc aaccaacgc 300
tgctacaacc atgaaacctc ggagcgatcc aacccccaca aaatgcactg cgtggcatat 360
acgctgaaca gaaccagatg agaggacatg cattcgaaga gatgcacagg cacggaaccc 420
cgctatacaa c 431

<210> 31950
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D2

<400> 31950
cccacgcgtc cgcccacgcg tccgcggact cttgggcagt gaacgagtac ttggatactc 60
gagtttatga tgtttggttcg gtttatatct tccttgtaat aagtcaaaaa taatgttttt 120
tttgtttcga atggagcatt aaaagaagg gactgatgga cacctatc 168

<210> 31951
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D3

<400> 31951
cccacgcgtc cgatatcttc aatgcaaac ctgtgtcgaa cagttatgta gtcttggtcg 60
gattaatcaa agggacaccg taatttcttg gagccaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 240
gtggcccttt aaaaaagttc aaaattaaca aaccttaaat tcaaagaaaa aagtttttta 300
aaatggaacc aaaattaaaa taaatggacc tcatttaaaa aacttataaa ttggaaa 357

<210> 31952
<211> 441
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-D4

<400> 31952

cggacgcgtg ggcgagcacg caccagcatc cttggcagcg atctgcttgc ttctcccagc 60

gagcgcgcgc ggccaagcta ggggatccat cagatatcca cgccggccat ggccgcccgc 120

gcctccacca cgtcgaggac caactcgcg gtgaactact cgaacgagat ccacgacctc 180

tccaccgtgc agagcggctc cgccgtcccc accttgttct acccggacaa gtccatcgcc 240

gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtggtggc gacgttcctt 300

ctggtgttcg tcacctgcgg ggcggcgctc atctacggcg aagacaacag gcgcatctcg 360

cagctggggc agtcggtggc cgccgggctc atcgtcaccg tcatgatcta cgccaccggc 420

cacatctncg gcgcgcacat g 441

<210> 31953

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D6

<400> 31953

cccacgcgtc cgcagactct taggctgagt ccattataga aatgtttatg ccaaaaaaag 60

aaaaaaaaac aaaataaaaa aaaaaataaa caaataacac tcaccctttc tactcgaaca 120

ctctaacatc catctacatg cacatctatc aactcacat aaagctacct aaaatcatta 180

cttagaccct ttcattacta atccgttact cggaaaaccc ttgcctctcc caaatcaatc 240

aacctcaatg acatattgct ttaatcaact 270

<210> 31954

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D7

<400> 31954

aaaaaaaaata aaaaaaata aaaaaaaaaa taaaaaaaaa aaaaaaaaag gaaaaaaaaa 60

agaaaaaata aaaaaaaaaa aaaaaaaata aaaaaataaa aataaaaaaat aaaataaaaa 120
 aaatgctatc ctatttttaa gatttttaaaa ttaccattac cttaaattcc taactataat 180
 tattacatat tcgccttaaa tcaaattcat ttataatttt ttacattct actaacttga 240
 aaaactatcc tattactaaa ttata 265

<210> 31955
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E12

<400> 31955

cccacgcgtc cgcccttagc cgccgccgc cgacttcac ggtgccgtcg tctagacctc 60
 gtcacgcact ggagggggta aagtccgaca tcaatggcga agcatcatcc tgatctcatc 120
 atgtgccgga agcagcctgg catcgcgatt ggccgccttt gcgagaaatg tgatggcaag 180
 tgtgttgtct gcgactcgta cgtgcgcca tgtacgcttg tccgggtctg cgacgagtgc 240
 aattatgggt cgttccacgg aaggtgtgtg atctgtggaa gagtccgcat ctacagcgct 300
 tactactgca aagagtgcac cc 322

<210> 31956
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-E3

<400> 31956

gtgtttcgct cccttctcgc cctccgacgg ctggttggca gccggcgccg gcgccgcaa 60
 acgctagggtg gtgaggcctt cgccagtgtc ttcgacggcg acgagcacgt accagcatca 120
 tgtcgaaaag aggtcgctg gcaggacgat tgattgataa ccgcagcaga gggatccatg 180
 tagtccctct agttgaggat ccagaggcc atcctgaagt cctcgtggat ggggatcgga 240
 ggggctactc tgacattcgt ggggttcagc aacgtcgggg ctaccctgac acccatctgc 300
 ttgaggaacc taggggctac cctggtgttc gtgtggtcga ccataggggc tatcctggca 360

gtcgtggngt tgatgaacgc anggcctatc ctgagctcca tcaaggctca c 411

<210> 31957
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E5

<400> 31957

tccacgcgtc tccccctatt ctccgcccggt ctactccatc gctcccctgg cgcaaacctc 60
gtaaccctct gccaatgtct acgaccgaca tcaaacaccta cccatcatac ttatctcatc 120
atgtccccta accagactat catctcataa cccacacctta gcgtagcatg taatccctat 180
agtttagtat cccactcgta cttccgcaca tctactctat tccgatacta cgacctactc 240
taacattctt cgttccaagc aacgtctgtg atcccctgac aactatttat ctcaaact 300
tactacttac cctagtgac ccatcatcaa acata 335

<210> 31958
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-E6

<400> 31958

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gcgttgagga ccctgggttnn gcggtgtatg agtaccgact cgggccgtgt gaccggagat 120
tcgagtgcct tccggagttt tcaatgggcc tgccgggggtg cgcactcgga cactcgcgcg 180
atgntgcggt gctttcttcc ggctgctgg acgcctactc ttccggcttt gaatccgatt 240
ccaggnnngt tggcgggctc gttatatgca gaaagagata acctctatcc cgagggcccc 300
cgcgcgtgcg tctttcggac tttcctaact gtcgctcgtc ttgccagcca acgtcaccgg 360
cttcgggaga atcttaacgc cgatttcctt ttcgggggtga ctgcgcgttg agtcgcgcta 420
tc 422

<210> 31959
<211> 191

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E7

<400> 31959

cggacacttt cgtccactct ttcgcccact tttccagacc cactcctccg gccacacgtt 60
 gtgccactct tactgcgact cctgcgtgcc gacacttcca aggtgcatct tgccatgtgc 120
 atgatcttca actccaccaa cgtcacacaa gtgttctctc ttatcaacag ctaaattctac 180
 ctcatgtact c 191

<210> 31960
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E8

<400> 31960

cccacgcgtc cgaaaaataa ataaacatat taaaactaaa agaaaaatga gaaaaaatcc 60
 tgggacaatc taaaatagta ccacacaaca aacccaatcc actgcatcat tattgcaaag 120
 cgccagcagt ccttcaccat aatacaattt tactcggcta ataacggcac acttggtgta 180
 ttactacat 189

<210> 31961
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F1

<400> 31961

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 gtttgtgttg gggcctttgg aatcgagag aaaatgggga aatcctccac cagtagagaa 120
 tgggtctgct agcaacttgt ccacaccgcc tcctaattga gcttcaagtt ctgaccaacc 180
 agaaagatga ttaagaagtt ggaactggta gatttttcgt ggcacgagtc taaccaagaa 240
 ggtatccttc aaagttaatg aaacaaattg gaacttcttt atttaaattc cttggcatga 300
 tatgtataga acatttattt ataacgtatt gatgcaattt aggagtttga caataagctg 360

ccatgattta ctcagaaata tgatcaatat aatcatgtga acatagaata tagtgtatgt 420
 ttttgccaac agattaattt ctcttttac 449

<210> 31962
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F12

<400> 31962

accacgcgtc cgaaaaaaaa aaaaaaaaaat ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aggaaaaaaaa aaaaaggga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agttagaagc tataaagaac 180
 taaatctaaa caccacaact tcgcaacact aaatctttaa aaaatgccca caaaaataaa 240
 atcaaaatca aagggtttata aaatactagg atgaataaaa atcgggggagc acccaacaaa 300
 aatggaaaac taaaaaatac cattaaaa 328

<210> 31963
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F2

<400> 31963

ccgtgtggtt cgttcttcca ggcctggcac tactccacat ttggttctgg aggaaagagt 60
 ggcaagggtc gatggtcac tggatggtag cacggcccaa cccgagccac tgctcgtgat 120
 ggcaaaccgc cagcggctct tggccggcgt acagttttac tcggctaaaa cggccccct 180
 tgggtgatta ccagattacc aacaaccttc gacgcagccc cagaattcac atcccaaccg 240
 tgtgtaaagg ttgtctgac cc 262

<210> 31964
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-F4

<400> 31964

gttcgacgca cgcgtcctac cgtacgcacc tagcttctaa tcataaattc gttccacacc 60

tacctacgtc cctcgtccga gctttaacat cttgcgcgca cccacaaaaa cttactact 120

agccatgac acagatctat atgctctcat caaatatggc ttaataattc acttaaaaca 180

tcttaccctc taataaaatt accagtatat tt 212

<210> 31965

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-F5

<400> 31965

cccacgcgtc cggtcgggtc acttctccag gtaaggaaag ggttcgtact catggcgccg 60

gcgcagccaa agtcgggctt cttcgttggc atcaacaagg gtcattgctg caccaagcgc 120

gagctgcctc cccgcccgtg ccaccgcaag gggaaatcaa cgaagagggt gtctatggtc 180

aggggcctga tcagagaggt tgctgggttt gtccttatg agaagcgtat cactgagctt 240

ctgaagggtg gcaaggacaa gcgtgccctg aagcttgcta agagaaagct tggaactcac 300

aagagggcaa aggacgaaga gagaggagat ggcgggcgctg ctcangaaga tgaggtcggc 360

ttgtacgcac actgacaaga ngaaatagag agcatttaag ttcattggagc ctgcagagaa 420

tatgttcagt gtctgatttt catacatgta g 451

<210> 31966

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D12

<400> 31966

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ggtctcattc gaccgtggaa acctctatct tatactacat ccaccaaaaa atatactgaa 120

cacggatctg catatgacta agggcacgac aatggcgcac cggacaccgt gcgatgtgcg 180

gtgctcttcc ggccgctgga ccctacctac ggctgaaccg attccataga tggccgaccg 240
 ttaagcacac atgataactc ttcctgagggc ccctatcggc gtatccagac ttactaacgt 300
 ggccgtctgt ctccacgtcc cggctcggga aatcttaacc cgactccctt taatgtgact 360
 cgcgtgatcg cgctatctgc caggtttctt caatccctta agatcggctt acatatgtgc 420
 aagtgccatt cacatggaac c 441

<210> 31967
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-052-Q1-K1-F8

<400> 31967
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 tgctctcaga tctcgcgcgc gccccgcaaa gggttaacttt gagccatggg cacagttgtg 120
 gatgctccag cagttgtggc tgaagagggtc actgaaaaca tggtgggttg taagaaagtt 180
 acagttgtat ttgttctagg tggctctgga agtggaaaag gcacacagtg tgccaacatt 240
 gtggaacact ttggattcac ccatcttagt gctggagatc ttttgcgtgc agagattaaa 300
 tctggctctg agaatggaac catgattgaa aacatgataa aggagggaaa gattgttcca 360
 tcagagggtga cctataaagc tgtgcaggag ggcaatgata anaatgaaaa tgacaattcc 420
 tgatcgaacg gatttcaagg aatg 444

<210> 31968
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-G10

<400> 31968
 cgaagagaaa agagaagaac ctctatccgg aagcgaaaag gaccagaaga aaccagaggc 60
 gactccaggt tcgtgggcga tgctgcgcgc gggaggtagg cagctccttg ccccggggct 120
 ccggcggctc ggtctgggca ccggcgccgc cggtagagtg ggcccgggcg ccgcggcggc 180
 ggtgatgagg gcgtaccacg agcgggtggt ggaccactac aacaaccgc ggaacgtcgg 240

ttccttcgac aaggaggacc ccaacgtcgg tactgggctg gtcggcgcg cggcctgcgg 300
 cgacgtcatg aagttgcaga tccgcgtcga cgaggactcc ggtaaaatcg tcgacgcctg 360
 cttcaagacc tttggctgcg gctccgccat agcgtcctcg tccgtcgcta ctgaatgggt 420
 gaagggaaaa ccaatggatg aagtcttgac aatc 454

<210> 31969
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B2

<400> 31969

cggacgcgtg ggccgcgacc gggagagagt cagagagaga cgcccgctc cagatcgctc 60
 ggcggcgatg ggcggcgtcg tctttccagc gctgctgctg gccgtagcgg cggtgcttct 120
 cctaccggtg gcagaggccg tgtggctcga gctcccgccg tctgggacca agtgcgcttc 180
 cgaggagatc cagcccaacg tcgtagtgtc cgccgactac gctatcatgt acgagtccca 240
 cccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300
 tcataatgaa aatgcttcaa cgggccagtt tgcattcacc acttcagaag ctggaaacta 360
 ccttgcatgt gtctggatag acagcgtgga caaaggatca ggaacatctc taaatcttga 420
 ttg 423

<210> 31970
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B3

<400> 31970

accaatcctt ccccttaca ctggatagag ttagagctag acttccaact ccagatcgct 60
 cgtaccctat gggggcatat gactttccag ctctacttct gctcatatca gcactccttc 120
 tcctaccggt aacagatgcc ccgtcgctcg aactctcgcc atctgacacc aacttcctct 180
 ccgatcagat ccatcccaac gtcctattgc atcccgacta cgctatcatc tacgattccc 240
 accccaccta tcatcccacc ttacgccttc aagtaataca tctaccatat tgccacatac 300

tgtgcactca tattataaat acacttcacac agtcctgtta gcattcacca cttcagaagc 360
tctaaactac cttgcatggt tctggatata 390

<210> 31971
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-052-Q1-K1-B4

<400> 31971

cccacgcgtc cgcccacgcg tccgcgattt cattcaagaa taaacttaac atgcgttaat 60
gatgaaactg gagtggttga cccgaagaag ttcagcgttc tgggtaactg gcagcgtgat 120
tactcaatgg aatacatcct aacccatctc aagaaagaga tgacatcgcc acagaaccgc 180
aagctagttc agcctccgga agggacattc ttctaaagat ggcagcaact catgtccatc 240
catggtgact cggaaacagc tttcgcacct gggttcctata ntttatatat ttagtctgat 300
ctcccagtta tctgtaaacc accgagatcg agtgcaagca gacttggttg atttacaatt 360
tgcccgttgg gtgctaataa tatgggatga aacggttgcc gggttggttg ct 412

<210> 31972
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B5

<400> 31972

gggaaacttg gctatggaaa gagtgcaact ggaaatagca tccttggagg ggaagcatgg 60
gtatcagaat attcacattc tgggtgttact aatacttgtc agctgggaag cactaccctg 120
atggactgcc ggaccatcaa tggtattgat acaccagggt tatttgatat gagcattgca 180
tcagacgatg ctggtaaaga gattgttaaa tgtatgaaca tggctaaaga tgggatacat 240
gcagttctaa tgggttttttag tggcacatct cgggttttctc gagaggatgc aagtacaatt 300
gagactatta aggtcttttt tggagaaaag attgttgacc acatgggtttt agtttttact 360
tatggtgatc tagttggtga atctaagttg aagaacatgc tcaatgatgc gccagagtat 420

ttgcagaatg ttgatgagct atgccaaaa

449

<210> 31973
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B8

<400> 31973

gtcaaggcca agatccagga caaggagggc atgcctccag accagcagcg gctcatttgg 60
gccggcaagc agctcgagga cgggcgcacg ctggccgact acaacattca gaaggagagc 120
accctccact tgggtgctgcg tctcaggggc ggcacgcaga tcttcgtgaa gactctgacc 180
ggcaagacta tcacccttga ggtcgagtct tctgatacca ttgataatgt caaggccaag 240
atccaggaca aggagggcat cctccggac cagcatcggc tcatttttgc cggcaagcag 300
ctcgaagacg ggcgcacgct ggccgactac aacattcaga aggagagcac cctccacttg 360
gtgctgcgtc tcaaggggtgg catgcagatc ttcgtgaaga cacttactgg caagacgatc 420
a 421

<210> 31974
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C1

<400> 31974

cgttcgaagc attcgagcgg acaagaatga aggccttctt cagctacctt ttgacaaagc 60
cctcctcgct gatccatcgt tccgcccact tgttgacaaa tacgcagcgg acgaggacgc 120
tttctttgct gactacgccg aagcccacct gaagctttca gaattgggat ttgctgaggc 180
gtaacgaacc agaagagtgt ggtggctgtc gccggccggc cttgtgtttt tgttgtctgc 240
ttttctcttg aacgaagatg tgatgaactc agctgaagat gtagtgtgta tgttgtcatg 300
gtttatTTTT ctattttatt tatctatcta taatatctat cggagaaaaa aaaattaata 360
aaatctTTTT ttaactTTTT ttatatcttg tattataata gtaatttctt tttttttatt 420
aaatataa 428

<210> 31975
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C11

<400> 31975

gtagtcatat ggctgctggt gtgaaggcta aacctaaaac tgaaccaccg cctgacagag 60
cggaaccaa tagggaagca gttgggccag cacagttgac tggtaccttg ttatctaata 120
ctgaagaaag tgcagacaat gtggttggtg atatcgaaag accacataac aggcagatta 180
atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240
tcgttggaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgtgg 300
atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360
catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420
ttcagggagc acagaatcgc caaggacagc ag 452

<210> 31976
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C12

<400> 31976

gtagtcatat ggctgctgct gtgaatgctt tacctaaaac tgaaccaccg cctgacagag 60
gggaaccaa taggggagca gttgggccag cacagttgac tggtaccttg ttatctaata 120
ctgaagaaag tgcagacaat gtggttggtg atatcgaaag accacataac aggcagatta 180
atgggatccc agcatctaac gcagtgccta ggtcatcaga ggatattgag gatggtgagg 240
tcgttggaat catcacactt gaggatgtat ttgaagaact cctacaggag gaaattgtgg 300
atgagactga tgaatatggt gatgtccata aaaggatccg agtagctgct gctgctgctg 360
catcatcggg tgcaagggtt ccatccgtta ggagattaac gggccaaaag gctgcaaacc 420
ttcaaggagc acag 434

<210> 31977

<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C2

<400> 31977

gtcgtcacca gcaggggtgtc ccggccctct ctagtttcta ccccggtccc caacattggc 60
gtgatgctgc tgcgcatgta gccagcgct ccccccctgg cttcaccggc ggcggcggca 120
acgacggtga aaactacatc ggggtgctagc tccgacggtg gtgcgtgccc tgttgacgat 180
agggcacgcg gggcgcgggc agcttgtaag cgttcgatcg gccatgtagg gcaactatac 240
atctttggca ggtctccatc atcctccgtg ggagagaaga tggtaatgga gtgcgtgtgt 300
atgtatgtgt atgcccaggg cgcgcgcgcg cggctctggg cgagtcacag tagagatgca 360
atatcatgta tccagtatct tttctacaac ac 392

<210> 31978
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C3

<400> 31978

gaaaggtttt catgatatgg cagaggcaat aaataacgat tgtcaaaaat ctttcctttt 60
tctttcatth gaaaagtgca taaaaattat attgccaatt ccattttaat tatattcttt 120
tttcttaatg ttaataaaaa aaagaagaaa attctggttt tttctttcca aaattcgata 180
taggctgaaa gacaatcaga tcttttttct cttcagcggg cagttccata tagaatttgt 240
tagaataaaa caagcgggtt aaaaaaaaaa actctttttt tttatttatc cacaaagcaa 300
aaaaggttct tatcaaacc acaataaaat gggaaagaaa gataaagtaa gtagacctga 360
ccccttgaat aatgcctcta tctgctattc tgatatataa attcgatgtg gatgaaattg 420
gtg 423

<210> 31979
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C4

<400> 31979

gcccgggcggtg cttctgggtg ctctccggcc cgcccgtaa ctacgagaac cgctggcacg 60
gctggaacac gaccgcgcag ggcgagaagg ccgacctgga caggctcaag aagatgctgg 120
ccagcatgtg cttcaagctc tacagcatga agggggacat cgccgtgtgg cagaagtccg 180
ccgacgcctg ctacgacaag ctacccccg taccacgcc cgccaagtgc gacgacagcg 240
tcgaccccgga cgccgtctgg tacgtgcca tgcgctctg cgtcacgggt cccagcccca 300
agtacaggaa gctggggctc aacgccacgc cca 333

<210> 31980

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-052-Q1-K1-C5

<400> 31980

tcccactcgt ccaccactc ttccacnaat ttgtaaaata cctccttacc gtacgatttc 60
gcaaattcat aaacattacc attccaattc catatcaaac atattctctc ctctcaacat 120
taataacaaa tataacaaaa ttctcattct atctttccaa aactctatat atcctgaaac 180
acaatcacat cttttttacc ttacccctc atttccatat atacattgtt acaatcaaac 240
attctaataa caaacacaaa ctctatttat ttatttatcc actactcaaa aaattttctt 300
attaaaccaa ctataaaatc 320

<210> 31981

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C6

<400> 31981

cccacgcgtt cggacgagtt caagaaggag gagaagcagc acaagcacgg gcagcacctg 60
ggcgaggccc gcaccattgc cgactgcgcc ttagcactct acgagaagca ccaagctaaa 120
aacgaccctg aacactcgca ccgacacaag atcgaagaag aagtcccagc ggctgctgcc 180

ctcggcttca ggggctttgc ctttcacgag caccactaga aga

223

<210> 31982
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-C9

<400> 31982

cccacgcgtc cggggcggcgc cggcgtgctt gtgatctcaa cccaagtcgt gcctccgctc 60
cggtcacccg tcgggtccacg caaccatgctc gaggaggaag accagggagc ccaaggagga 120
gaacgtcacc cttggaccca ctgtccgtga aggagagtat gtctttggtg tcgctcacat 180
ctttgcatcc ttcaatgaca ccttcattca tatcactgat ttgtctggga gggaaactct 240
ggttcggatc accggtggca tgaaggtgaa ggctgaccgt gatgagtcgt caccttacgc 300
tgctatgctt gctgctcaag acgtcgaca gcgctgcaag gagcttggca ttactgcact 360
gcacattaag cttcgtgcc a cggaggcaa caagaccaag accccaggac ctggtgcccc 420
gtctgccctc aaggcgcttg ctcgttccgg gatgaaa 457

<210> 31983
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D1

<400> 31983

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa attaaaaata acaagacctc 60
tggttacatc cggggtcacg ctacctcgta tcctattcta taatatcacc taatttcact 120
ccaaaattca tccacttaca cctcctttta caactaaaac cctgacatta cccaacttat 180
tc 182

<210> 31984
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-D10

<400> 31984

gggtcgaccg cgacgcgtcc gccacgcgt ccgtagatag tgaactgaca atccacatga 60
caggtgttaa gtatgaactt ggccctgctg attccgcagg tgctaaccag gagttgatca 120
ttgatggcaa gcatggcgaa gaacctgatc ctgatgatac tcgtcaagat gttttaaaat 180
ctggcaatgg gacagatatg ataacagaac agagtggaaa ttccatgggt ctgaaagctg 240
aacctgatcc tgacgatcat gt 262

<210> 31985

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B12

<400> 31985

ctgtattgca ggatgttgcg ctaatactgt ggtcgatttg cgatgtttgt tctgtatcgg 60
atgatgtttc cttagtaagc tgcttgaata gatcatgctc aatgtaccat tatttacact 120
ggagactaga caaaaacaat cgtttgat 148

<210> 31986

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H11

<400> 31986

cggacgcgtg ggccgacgcg tgggccagaa gagcttgacg ttactgagag tgtgtgtgag 60
agagaggatg ggtggcagcg gcagggctgc tctgctgctg gccctggtgg tgggtggccgt 120
gagcctggcc gtggagatcc aggccgacgt cgggtacggt tacggcggcg ggtacacccc 180
gacgccgacg ccggccaccc cgaccccgaa gcccgagaag ccccccacca aggggccgaa 240
gccggacaag ccgcccgaag agcacaagcc gcccaaggag cacggggcca agccggagaa 300
gccgccaag gagcacaagc cgacgccgtc cacgtacacc ccgagcccca aaccacgcc 360
gccgacgtac actcccaccc cgacgcccc caagccgacg ccc 403

<210> 31987
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H12

<400> 31987

ctcggactga tgattgggtt tggtgtggtg gaatttgatg gcaactcctc tgttatttgt 60
gggaagatga gatgtagttt attggtgaca acaaaaaggt caagggtata aaatccatct 120
gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaatt tactcaaagc 180
aatggttagt gataggtgcg ccagttctag gaaaaaatgt actagcgggtg caacggttct 240
aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaaatctac 300
aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360
atcacttttc ctaggatgga cgctctagca caagtagata aagtg 405

<210> 31988
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H3

<400> 31988

tctaaaaaaaa ataaaaaaaa aaatataaaa aaataaaaaa aaaaataaaa aaaaaataaa 60
aaaaaaaaaa gggtaatat taaaattatg gaaaataatt tatttataat ataatttttt 120
aaattttatt tttatttata ttcaattata ttattatttt aaattgttta ttatttttaa 180
atttctattc tttttaattt ttatttttct ttttaattata ttttttttat atttttattt 240
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tttttttatc tcatttttta tttttttatt attttttatt attttttact tttatatatt 480
tttatttttt tttttttttt ttttt 505

<210> 31989
<211> 223

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-H6

 <400> 31989

 ggctcgcgtt gcgagtctaa cctgacgatg gaaactacaa tggttgtcgg aaggatatgg 60
 cccgtgtgaa catgaactgt agcctggagt agaggcaaac accgtggttc gaccaactta 120
 atagccctaa tggctggatt ggtaatgaga taataatatc gcgcctatac tacaactatc 180
 tctacattta tgactagatt gctgactata ggactacagg gga 223

<210> 31990
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-H9

 <400> 31990

 tcgcccacgc gtacgccatt actagtcatt ggcaacaaaa tagacaagcc tgaaggtctc 60
 cctaaacaaa ccttcacaga aataatgggc ctaaagacga tcaactgaccg agaagtggca 120
 tgcttcatga catcatgcat gaactcgacc aacattgatt ctgtcattga ctggctgggtg 180
 aagaactcga aaaagaagaa ttgaacttaa atctgtacta gctattaaag cgcacgccaa 240
 tctctctatt tttgcatgtc tcatagcatt ggagctgtaa atcatgcaag aggtattaat 300
 cagggatggt gtgttcataa ttttgttaac ctggtttagc agtatgttgg tggacagcgt 360
 ctggtattga gcacgcccgt gctctgaggg tgccctctgt gttc 404

<210> 31991
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-052-Q1-K1-A1

 <400> 31991

 cgaaggcatc tccaatctcc tcgcccncca cggacctgaa ccgagaacct ttaccgccgc 60
 ggccctctgc ctagccgccg gagaagcgcc gctcgctcag gaggacagcc atggcgccgg 120

agccggagga tgatattatg aacgagaaga atccccgccc gctcgacgag gatgacatcg 180
 cgctcctcaa aacctatgga ctggggccgt attcgaccag cattaagaag gtcgagaagg 240
 agatcaagga aatggccaag aaaatcaacg acctctgtgg gataaaggag tctgatacag 300
 ggctggctcc acctagccag tgggatttgg tttcagataa gcagatgatg cangaagaac 360
 aaccgttaca agtagcaaga tgtacaaaga ttataagccc taatacggat gatgccaaat 420
 atgttataaa tgtaaaac 438

<210> 31992
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A11

<400> 31992
 gcgcgcaccg ccgtcggccc accgcttcag ttggcagttg cgacttgca gtggctccaa 60
 caaggcaaca caatccggcg gcaccaaccc agcgcggcgc caccggcgac ccgtaccccc 120
 ttccccggag agcgatggcg acggagctga cggcggcgca gctgcgcgcg tacgacggca 180
 ccgaccgcgc caagcccacg tacgtctccg tccggggcaa ggtctacgac gtcacctccg 240
 gccgcggctt ctacggcccc ggcggcgcct acgccgtctt cgcggggcgc gaggccagcc 300
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtctc cggagacctc tccgggctca 360
 ccgacaagga gctcggcgtc ctgcgccgact gggagaccaa gttccaggcc aagtaccccc 420
 tcgtggcccc actcgccgcc gacgcctgaa ctccg 455

<210> 31993
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A12

<400> 31993
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 ggcaacacaa tccagcggca ccaaccacgc gcggctccac cggcgaccgc taccctcttc 120
 cacgcagagc gatggctact gagctgaccg cgacacaact actcgcgtag tacggcaccg 180

acccggtccaa gcccatctac gtctccgacc gcggcaaggt ctacgacgtc acctccgacc 240
 gctgcttcta cggtcccatc ggcgcttacg tegtcttacc cgcccgcgag gacagccgcg 300
 ccctcgggta caactccaaa tacaatgccg accttctcag acacctatcc ggggtca 357

<210> 31994
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A3

<400> 31994

taccggggtc gaccgacgcg tccgcgcaga ccagcagctg atcgctcact cttgcagctc 60
 gatcattctt tagctgctct agctgtagcc tctaggccta gctagtagct agccactcgg 120
 tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccga 180
 ccgtcgtggc gaccgaggaa gcgccggtgg tggagacccc ggctccgccc gccgtcgtgc 240
 ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
 ccgagccagc tgccgtcgct gagcccaggg cggtccccgt ggccggcgat gaagagacgc 360
 caaaggatga agagacggca aacgat 386

<210> 31995
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A4

<400> 31995

cccacgcgtc cgcactcccg cccctacgcc ttacaaaccc acacccaaac ccaactccac 60
 gcctccgacg tgcacctga cccccaagcc tacgacacct aatccgaccc cgccgacgta 120
 cactccaagc cccaaacctc cgacgcccga gccgaccca ccgacgtaca ccccttcccc 180
 caagccttcg acacctaagc cgaccccgtc tacgtacact ccaatcccta agccaccggc 240
 taccaagcct tccacgcca agccgacccc gacaacgtac accccttcgt caaagcctac 300
 gacaccaag ccgaccccggt cgacgtacac accttatacc aagcctacga cgcccaatcc 360
 gaccccgta acgtacac 378

<210> 31996
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A5

<400> 31996

actcgtccga aaaataaaaa aaaaaattta aaaaaaatTTt taaaaaaaaa aaataaaagg 60
aaaatatagg gatattttaa aaaaaaaaca atcaatcaaa aaaggcctcc ctcttttcat 120
gttccaagtt tacttactct tcctttccac actctttctc tcctttactc tcatctcatt 180
tcacttctct gaccctcttt tttcaacctc ctctcttcta aaactctggt tttcccatc 240
ttaatccctc tgctcccatc caccttttct ccactttacc taatcactaa tagcccttta 300
cccttcggtt tcctaaacat tttcacatcc tatttgccaa atggatcact ccctttaaac 360
gacctttacc 370

<210> 31997
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A8

<400> 31997

cggacgcgtg ggctagagtt cagtttctga gattgggcaa cggcagcggg tcagctcggg 60
aagtttgtgc tgggatgcc a gtttatccct tctagtctat tacagaaatg ttgttcggag 120
ctgagtctat tataaacatc ttggtctgag tttattgttg agtggtgcc a gtttttttca 180
atatacattt atcttaaaaa cagcgttact gatgtttttt tgtctaaagt taatgagttt 240
gcaatgggtc tgagtct 257

<210> 31998
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G9

<400> 31998

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cccaccaata gagccgtgta ctataatgat agatctcctc cggctgaatt gaggcgagac   60
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gcggcagctg cagccaccgc cgcgacacag gcccctcctg gatatgttct tgcccagatg  180
catgcgctc cgccaccgca gcagcctcca ccacagcagc aaccacaaca gccagctcct  240
cagcagattg ttgctgctgg gaatcaacat ttcattccaca accctgccac tggcaccttt  300
attccaatcc aatcctatta ccaccatcct gtccatcagc aggcacccca gaccatgcaa  360
aggcagcaac aggcacctac gttcgacca aatacagga                               400

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<210> 31999

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A9

<400> 31999

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aggacgcgtg gtcggcgacg gttataacct gggcatcgcc gagcagagcg gcatctccgg   60
gggcggttc tgcttcggca tgctcccgcc cacgctcgtc gggtagaag tcaacgccga  120
cattctgctc gatgtttact ggaaccagct ggacggcgga tgcaagcccg tcgtaggagc  180
acaagacgtg gacgccgggc ccaccgaagt cgtcgaggat gaggacgtca cgtgacaccg  240
atactcgac gccaccatgt ggcaccttct tctgcgacac gccagtcac agcaggtgcc  300
gatcggctac tactacgcat ggaatgaaga cctcgtgaag ccgccaacg gcgtgccaca  360
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<210> 32000

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B11

<400> 32000

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ttcaacaaga tctagagttc agtttctgag attgggcaac ggcagcggct catctcgtca  180

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agtttgtgct gggatgccag tttatccctt ctagtctatt acagaaatgt tgttcggagc 240
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 tatacattta tcttaaaaac agcgggtactg atgtcttttt gtctaaaata acaaagcatt 360
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<210> 32001
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32001

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 gataacgaag caggatcagg ccaagctggc tgccctnctct atcgacagca tcgtgaacgg 300
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<210> 32002
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F10

<400> 32002

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 cacctggtgc tccgcctcag ggggtggcatg cagatttttg tgaagacatt gactggcaag 180
 accatcacct tggaggtgga gagctctgac accattgaca atgtgaaggc caagatccag 240
 gacaaggagg gcattcccc agaccagcag cgtctgatct ttgctggcaa gcagctggag 300

gatggtcgca ccctcgcgga ctacaacatc cagaaggaga gtacccttca ccttgttctc 360
 cgcctcaggg gtggtatgca gatctttgtg aagaccc 397

<210> 32003
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F2

<400> 32003

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 aacttaagat tcaaattgctc cggaatggaa atgaggggaat gtccacatta cccggattta 180
 gtcagatcca attcgaggga ttatgtagat tcattaatca aggcttggca gaagaacttg 240
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 gatatcaatt gctagaaccc tggataaaaag aaaggaatgc tgtgtatgaa ttactcacct 360
 attcattcga attatatgta ttcgctagat taaattttgg tttccatgtg 410

<210> 32004
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-051-Q1-K1-F4

<400> 32004

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 ccagggacca cagtgaccgt gaagtggcgt ggaaagccag tcttcatcag gcgtcggaca 180
 gaggatgaca tcaagcttgc caacagtgtg gatgtggcat ccctgcgcca cccagagcag 240
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 ggctgcattc cactacctaa ttgccgagac tttggcggct ggttctgccc atgccatggt 360
 tcccactatg acatttccgg gaggatccgc aagggcctg cgccgttcaa cctcgaggtc 420

cctacctaca ngttcttgga gggagacaaa ctgctcgtag gcttaaaa 468

<210> 32005
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F5

<400> 32005

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ttagctatag acaaaaaaaaa aaaaaggtag gccgcggtgg tggcgggtgct aatatgctta 180
gccacgcgcg gttgatcttt gagaagttaa gcgtgtacga aatgacagct ttgtacgtgt 240
actgtctgct ggagtgtgct gtgtatctgg tctggatccg atcggcctaa tgtatgaaaa 300
aaaggatggt tacgtactaa atggaaaatc attttttcc 339

<210> 32006
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F7

<400> 32006

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gcctatgaga cggccaagtg ggagaagatc acctacgccg ggatcgtgac ctgcaccctc 180
ctggcggcgt acaacctgtc caagggccac cccacttcg atgagccgcc ggcgtacccc 240
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gaccaccact gagccctgat tagcacacct tcaggagctg gtgcacgctt aaaagagtta 360
tatggttggt tcagtgtttt tccttttccc ttgagaccta tttgctgcaa catgaaataa 420
gaatgaccaa actcttgat tgacagtga gttttaact 459

<210> 32007
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F8

<400> 32007

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agtcacggc agtcacttag ttagcgcttt gtgctaggag gttgtgacca gtggagctct 240

atttggcata ttggaatttg gaatccggct acattgttgt acagaccttt gattgacgta 300

gcttggagag gatgtaggag tgaacagggc catgctttga agcgaacaag ttataggcat 360

atgggagctg gggatcatcc gagacagatg ccgctcgaag tgtcactgta cttgttgtgt 420

ggtatcccta tagcaccaaa gtagatggag atgtgcttt 459

<210> 32008

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-F9

<400> 32008

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gccgaccccg ccgacgtaca ccccttctcc caagcctccg acgccaagc cgaccccgcc 120

gacgtacact ccaagcccca agcctccac acacccgacg cccaagccga cccacccgac 180

gtacaccct tccccaaagc cttcgacgcc caagccgacc ccaccgacgt acaccccttc 240

cccaaagcct tcgacacca agccgacccc accgacgtac actccacac cgaagccgcc 300

ggccaccaag ccgaccacct aactccgac gccgcccgtg tctcacacc tcagcccgcc 360

gccaccatac tactagaaag cgatgcctac cataccacac 400

<210> 32009

<211> 448

<212> DNA

<213> Zea mays

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<400> 32009

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taaaaagtgg gagaagttta acagtgagaa ggtggcatca cttgcttatg ccagaatcca 180

agggaaaaca gccctgattg ctcatattcca gaactctagt ttgatgaatg aggacaaacg 240

ctgccgtccc atacttttcc actcagatgg tctaatgca ggagatcagg aacctttccc 300

cacgggttca aacatccgag ccaggtctgg gagatcccgg acttcttcgg gtgaagaaaa 360

tcaccatgac atccagacag tcttgaccaa cggtgacact tcttccaatg gagctgacaa 420

ttcaggtccc accaaagata ctgagtag 448

<210> 32010

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G11

<400> 32010

accacacac tctcatagcg acaatctaca cgactcaact gaacagatcc atcgactcca 60

caccgacgcc actgttactt gggacgtac tactactact cccctcctcg ctctcctcc 120

tgctacgctc gcgaggcaag cgcacggcta ccccatacc catcgaaact gccgatgctc 180

atcaccacga catgactcac caactacccc gcccaaactg aaccctgct gacacgccta 240

tctaagcggt acagtcccat cacggctctc cgc 273

<210> 32011

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G12

<400> 32011

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gcactgcgct gtagctccgc atcgatcatg aaggtaagg cgccgccggg catccagtgc 120

acatgcatgg tttagggcac ctgcactgac tccgtgcaac gagctagctg cggcacctga 180

agaggcagat gccgacgcgc ctgcagatgc cgcttcagca gatggagcct aaagctctac 240
agactcaaat aatgcagcta gctcactgct cttcatatgc tcattgcttg ctgcctgcta 300
actagtgggtg atacaactat tgttgccatg ttactaatca gtaatgatgc atctcccttg 360
gtcatgacta tgtacttacc tatgat 386

<210> 32012
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-051-Q1-K1-G3

<400> 32012

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gctagaggca acatacagac aatcagctga ctctgttgca gttgaatcaa tgattgcaaa 120
gttgacagag aaggaaggtc cttgcttaaa aggtaaaggc agggccagtg atgcagcaag 180
aatcgtgggtt ctgacctgga gatcgttgct aattatgtca agagattgga agtacttctg 240
gatcaggctt gtcttgtata tgcttattgc tgtgtcaatt ggcacgatat ttaccgatat 300
tggccattca ctatcatctg taatgggtgag gatttctgcg atatttgcac ttgtatcngt 360
tgtcgtcctt ctaagtgtt ctggagtacc cgctcagatc gatgaagtca agatttattc 420
ccacg 425

<210> 32013
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-G4

<400> 32013

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tcattaaatc atcaataagc acccaggaat ttgtggtaga ggtacctgta ccagttcagt 180
gtctgaaaac tgcgggtaac aaacctttgt gtcccggata agtgatgtgt gtgtgtgtgt 240
gtgtgagtga acagtgcac tagtaagaga attgttgctg ggtttggtac ttggattctt 300

cgctctttag acaagaagta ccatggcatc aaaaaataaa atgtttgatt aactt 355

<210> 32014

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-G5

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cgccaggggc gtcagcggcc tcaacgccgg caacgccgcc agcatcccct ccaagtgcgg 180

cgtcagcatc ccctacacca tcagcacctt caccgactgc tccagggtga actaaaacct 240

agaccacgcg cgacgacggc cgnctgatcg atcgaccaac cattccgncg tcgccgncgg 300

ccggatcatc gatcgtcgtc atgatgatat ctatcaatct acgcgtgatg atcgatggct 360

acttgtctac tgctatgtac tactaaataa aatctctccg tgtgtgcacg tacgctngca 420

tgtgcatggt agcatgtatg tacgacgtcg tncatgtat 459

<210> 32015

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-G6

<400> 32015

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agctagcaga gcggcggcag gcacctccct cctcaaggaa catggcccgc acgcagcagt 120

tggcagtagt ggcgaccgcc gtggtggcct tgggtgtgct ggccggcggcg acctcggagg 180

cggccatcag ctgcgggcag gtggcgctcg ccategcgcc ctgcatctcc tacgcgcgcg 240

gccagggctc ggggccctcc gccggctgct gcagcggcgt caggagcctc aacaacgccg 300

nccgcaccac cgccgaccgc cgcgccgnct gcaactgcct caagaacgcc gncgccggcg 360

tcagcggcct taacgccggt aacgccgnca gcateccctc caagtgcggc gtcagcatcc 420

cctacaccat cagcaccttc accgact

447

<210> 32016
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E9

<400> 32016

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ttcatctcgt aaattggaag cgatgtttgg atgcctatgt atcaagtgga tcataaacat 120
ccaaacaacg ccttaaaata gatgtttcga cattattatt ttcttgcttg caatccaggc 180
tctaacaact tctcggctctt gtttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaactaa caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa at aaaggactgt ctttaaaaa 329

<210> 32017
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C7

<400> 32017

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gccatggcga gcagcgctag ccaggcgagc ctcttgctcc agaagcagct caaggatctt 120
gcgaagaacc ccgtggatgg gttctccgcc gggcttgtag acgacagcaa catcttcgag 180
tggcaggtca ccatcatcgg accgcctgac accctatatg atggaggcta cttcaatgca 240
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atgtggcatc cgaatgttta tctgatgga cgtgtttgca tttctattct tcatccacct 360
ggtgaagatc ccaatggta tgagcttgca agcgaacgat ggacaccaat gcacacggtt 420
gaaagtatag gtctgagcat catttcgatg etc 453

<210> 32018
<211> 458

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C8

 <400> 32018

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 aagtgtgagt tagttgacat actattcact tgtacctcgt gcgatttctt atacgtgtac 180
 ttgtgtgctg tctatgggac gcactgagcc cataaatcga ttcgtgacta tgtaggtatg 240
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 gcgtgcagta aggtatggc taccttctgg ttgacatgcc cttgggtaat tattgtcgat 360
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 taatttattt tttttatttt atttttttct tttttttt 458

<210> 32019
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C9

 <400> 32019

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 gccaatgat gatttgattg agaaggctga tggctttgct ggtgtctttc cagaacacaa 180
 gtatgagatc gtgaaacgct tgcaagcaag aaaacatata tgtggcatga ctggggatgg 240
 tgtaaatgat gcaccagctt tgaagaaggc tgatattggt attgcagtag cagattctac 300
 tgacgcagct cgtagtgtt ctgacattgt cctaactgaa cctggcctta gtgtgattat 360
 tagtgctgtg ctgacgagtc gggcaatttt ccaaaggatg aaaa 404

<210> 32020
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-D1

<400> 32020

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agaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaataaaa 120

aaaaaaaaaa aaaaaaaaaa aggggggcct ttttaaaga tccaaattta atttcctttt 180

aatttaaatt taaaactttt tt 202

<210> 32021

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D10

<400> 32021

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catgctgacg aggcggaacg tgccgatgtg cgcccggtc agatacagga tgtcttcgag 120

cgcccggtc ttgacgaatt cgtccagcac cttgcggcca tagtggtgag gatccttgat 180

ctggctgtac agcttgccgt cggaacgt cccggcgccg ccttcgccga actgcacgtt 240

ggattcgggg ttgagcacgc ttttgcgcca caggccgaag gtgtccttgg tgcgctcgag 300

cacggccttg ccgcgttcga ggatgatggg gcgaaatccc atctgcgga ggatcagccc 360

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<210> 32022

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D11

<400> 32022

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cgagggcgag cgcccggtc agctggtggg cgccgggag agcgcgctc tgcaggaggt 120

gcgcaccgtg cccgggtggt cctaccgct cgcttcgcc gtgggggact cgggcgatgg 180

ctgcgcgggc tccatggccg ccgaggccta cgccgagcgc gccacggtca aggtgccta 240

ccagtccagg ggcacggag gatacaagcg cgccgtgctg gacttcacgg ccacgcca 300

ccgcacccgc gtcgtcttcc agagcacctt ctaccacatg aagcccgacg gcacgctctg 360
 cggcccgcgc gtcgacgacg cctcgctcgt cggcctgcgc a 401

<210> 32023
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D12

<400> 32023

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 aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaagggccg gcctttttta aggaccaaatt tttacttccc cttacttgca 180
 acatatttat tctttttttg tgtcccttaa ttttaatttaa ttgcccttct tttaaaaacg 240
 tttcatttgg aaaaaccttg cctttaccaa attaaatcgc ttgcaaaaa ttcccttttt 300
 cccaatttgg cttattacca aataggccag caccttttgc cttttcaaac atttccccac 360
 cctaaatggc aatttgaacc ccct 384

<210> 32024
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D4

<400> 32024

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 ggtggaatgg gaagctcatg aggaaatgaa tgaagggggg attacatgtt tgtggctggt 120
 gattgttgaa taatctgtgc tgggttttaa ctgcgcccg atgcctgtac tgtctcttat 180
 tttttttgct agcaatagtt atgctgcctg caacttcatg cctactgtct gtactatttg 240
 ttttgactgt gtgtaagtct attgttattg atcattgata ccctgtcgac tgcccttacc 300
 ctttttgtaa aatattttta tttatttttt tatttttctt gtatttttct tttcttttgt 360
 tttcttttat tttagttggt atatttttat ttttttttta ttagtttt 408

<210> 32025
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D6

<400> 32025

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gtcgtggata agatttaca gatgaggatc aataacgata aatgacctta gcattagtca 120
gacgacatca tgatccgtcc attttgtact tccatagctt tgaatcttgt tcgccagggg 180
cttgagccta ttgtaagttt gagttggctt ctctcccctt atcatggtga ctctcccaag 240
ctcgtcttcc accagttaca tcttggaat catggtggcg tcattaccct cgtgagagat 300
cttgaaggta ttccatattt gctttgtatt gtccaagcca cagactttgt tgaattcatt 360
ccttcatagg gatgcttaca aaacaagtgt atcttgtgca attttatgaa tttgcttaat 420
aatcaataga ggattatcag tactattcaa atgcatt 457

<210> 32026
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D8

<400> 32026

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agaatggagg gagttcggac aagaatatta cagaattcat cgctaagtat tctttaagtt 120
aattttcaaa gatttcgtaa aaaatataat tttcaaaggt aaaaaaaaaa aaaaaaaaaa 180
aaataaaaat aaaaaaaaaa taaaaaaaaa aaatatattaa acttttttaa gaattccaat 240
ttta 244

<210> 32027
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-D9

<400> 32027

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 cgaaatcgat cggttgccat ggcggggatg agagtcggca agctggcgct ggctgcggtg 120
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 tacaacttct acaaccgcga gcagaacaac tgggacctca acgccgtgag cgcgtactgc 240
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<210> 32028

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E12

<400> 32028

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 gccatggtgg gcggcggagg gcattcgtcg atggaccacc ctggcgccaa ggacgatgga 180
 gacggggaag aaagccagta cttctcggac gcggaggacc ggtcgtggcc gtcgcactcg 240
 cgccacgact ccaccgccta cgaggactac gtctcgtgtg gcgtgtccgc ccgcgcgagc 300
 tccgtcgacg ccgacgcoga tgccgacggc gaggccgtca gacaacactg catgaagtcg 360
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<210> 32029

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E7

<400> 32029

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gtggctccca tcgtgcggt tgaggaggta gccgtcacca ccggcgagga ggacgaggac 240
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 gaacggggca cgggcgctgt caagcttctc aagcacaagc agaccgtcaa ggtccgccta 360
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<210> 32030

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 gcaagcttat tcccacagct cgcgcagacg gagcacggcg tagccggcgc ctcccatggc 180
 gcgccgagct tcctgttctg caatggcgca ggtgcagcca cggcagactc agcctcgcta 240
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 aggaaggccc ggacgaagcc cagggaagac agcgccagcg ccagcgccag cttcagcttc 360
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<210> 32031

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A2

<400> 32031

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 ttctgccccg atctgaccat ctaagccttg cctttttaacc aaaaataagg tcctgtcccc 180
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253

<210> 32032

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A3

<400> 32032

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gaagaagcca agaggggtgat cctgtgcgac aagcccgcgc cgcacatcgt cgtgctgccc 180
gtcggcacgc cggtgaccat ggatttcgcg cccaaccgcg tccgcattct cgtcgacacc 240
gtcgcggagg caccacacat cggctgaggt ttaaactctac aaaatgaatg actcggacat 300
gccatgcgta cctgtccgtc gccgaataat ggatgtgtgt gtgcttcggt ccaatatatt 360
gctagtaaaa ataatggcat cgtcgggtatg catgaataaa atgtatcaga atgttcaatc 420
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<210> 32033

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A4

<400> 32033

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<210> 32034

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A6

<400> 32034

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aaatggtagc aacggagatt gtgataccat tgaaataact gtctatgact actatgcaaa 120
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 gcgcccaca tattttccaa tcgagctatg ctgcttggtt ccgcttcaaa gatacaccaa 240
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 aaggatgacc gttctaaatg atgcactgca acgcagtaac tacgattctg accccatggt 360
 gagggcatgt ggtgtttcag ttgctccaaa atttaccxaa gttgaaggaa ggatccttca 420
 agcccccaaa gctgaagccg gcaatggtga tgatatcttt tca 463

<210> 32035
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A7

<400> 32035

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 accatgcgca agaccgtggg caagcccaag gtggcgggct ccggcagccc ctggtacggc 180
 cccgaccgcg tcaagtacct cggccccctt tccggcgagc ccccgagcta cctcaccggc 240
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<210> 32036
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-051-Q1-K1-B1

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 acgttgtctc gccgccaccg acccctgcgg ccccgaccgt gggcgctca gaccgcgcc 180
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ggtccccggg attcaggctt cttggagagg acacttccgt gcacaaatcc cttggggggcg 300
 gtaaaactgc tgacgttctg ttatggaaag acaagaaaac ttctgcttgt gtaatangcg 360
 gcgcaactgt catctgggtt ctgttcgaag tgcttgatta ccaccttctg accctgatat 420
 cccatgtact tgatggtgtg c 441

<210> 32037

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B10

<400> 32037

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 ctcaggcaaa gagggctcgc atcctcgcct gtcccagaag gttgaagcac aggggccccg 180
 actggtcggg cctttaccag cagcagggca acttcctggc gcagcagcgg ctgcgcgtcg 240
 tctccccgct gtccggcgac cagccgctgt tcaacgagga ccgcaccgtc gtggtggtgg 300
 ccaatggaga gatctacaac cacaagaacg tccggaagca gttcaccggc acacacaact 360
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<210> 32038

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B11

<400> 32038

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 gaacgagagg ctccgggaga gggccagcgc gtcgcccgcc gagaacctcg cgctgctcca 180
 gaacctgtcg tccaggacgg cggccgtgcc agagccagga gcgggagctg cgtgaggttg 240
 ctgcttcgat cctctgcctg cctgcctgct gaacatgaag tagcgagctc gcgtcaccct 300
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taggaggcca tctgcttggc tgctccgcc tgtctgtgt 399

<210> 32039

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B2

<400> 32039

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ctctatatga caggaaatgc agaactcctc tatttttggg ccagactaga ggaagacagt 180
tctttggacc tgaacttatt caagaagcag aaaaacaagt tcgtataatt cgagagaatt 240
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tttgaagaaa gtgatcatgt gtacctcaa gtgtcaccac ttcgtggaat gaggagattc 360
aatgttaagg gcaaattgtc cctcgccttc attggaccat tctgagtttt ttaggcaatt 420
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<210> 32040

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B7

<400> 32040

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aaaaaaaaaa aaaggtctcc cttttcaaag attcaaactt tacttccccct ttcttccaac 180
ttttaaatc ttttaaaggt tcacctaatt aaattttatg gcccgttttt taaaaacctt 240
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actttttt 307

<210> 32041

<211> 380

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-B9
 <400> 32041
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 atacataaca tagaaatcac acgtggaagg ggtgggcaat tagctagagc agcacgtgct 180
 gtatcgaaac tgattgcaaa agagggtaaa ttggccactt taagattacc atctggggag 240
 gtccgtttgg tatcccaata ctgcttagca acagtcggac aagtgggtac tgttggtgtg 300
 aaccaatata gtttgggtag agccggatct aagtgttggc taggtaaacg cctcgtagta 360
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<210> 32042
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C10
 <400> 32042
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 aattgcttcc ttgccaatta ataaccaa ataacatcccc ttacatctca actcatatct 180
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<210> 32043
 <211> 255
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-051-Q1-K1-C11
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cgactccgac gccgacccgc tcgccggcgt ctccgcccgt gccgcccacg accatgcctg 240
ctccagatca cgcgc 255

<210> 32044
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C12

<400> 32044

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gccatggcga ccatagccac gatggcgctg ctgaagcccg ccgccaaggc cgcggcgcg 180
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gcgtcgtcgc ccgacgctgc gctggcagac gtcgcggcgg cggacgccgg cggcgacagc 360
cgcggccagc tgctgctcgt cgtggtggcg cccgccca 397

<210> 32045
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C2

<400> 32045

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tcaaaactct gttccgtcgg aggcctccg atgaaatgtc tgaagatcag atggacagag 240
gatgtttaga acctgatgtc gtggaggaaa tatacgagga gggctctgca atgcttgctc 300
gaaggttgaa tataaattac ccatctggaa atatgttcaa gctgcatgat tgtgctgtct 360
gccaattgga gatgaaacct ggtgagggca cctctgttca tggtaacatg cccaagcatt 420
c 421

<210> 32046
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-051-Q1-K1-A10

 <400> 32046

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tccgtgcgag gtggcaggtc gtcggaggcg gngagcgagg agctggcggt ggggaagcgt 360
gacctggcga acctctggag gctggtggag ggcattggac 399
  
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<210> 32047
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C3

 <400> 32047

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aaaaaaaaa aggggcgccc tttttaaggt ttccaagttt atttaccctt ctttccaact 180
taaaaccttt tttttagggc ccccaaattt caatccattg cccgtctttt taaaactttt 240
atactggaaa aaccttgggt ttccccaact taatcccttt gaaaaaaatc ccctttttt 298
  
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<210> 32048
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-051-Q1-K1-C4

<400> 32048

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agcatgctga gccaccgcgg cgacagcggg tgccagggcg cttctacac ctacgacgcc 180

ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240

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<212> DNA

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<223> Clone ID: LIB3068-050-Q1-K1-F6

<400> 32049

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acaataagac tggtaaacg atcccaaaag acaatcaaat ccccgttttc taacaacgga 180

attactgaaa taaccttaaa actaccaa 209

<210> 32050

<211> 375

<212> DNA

<213> Zea mays

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<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F8

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51

<210> 32052

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F9

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ccagggggtg ggtccccttc tgacgggtca gtggaatctt tatgccccaa atcctgattc 180

gagtaatcat ttatttggtg ccaactcaagg agcgggaact gccattctga cccttcttgg 240

gggattccat ccacaaacac aaagtttgtg gctgaccgat attgctcatc atcatttagc 300

tattgcattt attttttctca ttgccggtca tatgtatcga actaacttcg gaattgggca 360

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<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G1

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<210> 32054
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G12

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 aaaacctcat gcattcgaaa aaaatgcctc taccaaactt attaattctt aatcacatcc 240
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<210> 32055
 <211> 168
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G2

<400> 32055

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<210> 32056
 <211> 442
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G4

<400> 32056

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cctttgggtc ggtatttcag tacctttggt ttttgttggg agcttccttg gcttcaagaa 360
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<210> 32057

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G6

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atcgaccca tctgtgccct ccaggctctg atggaggggtc ttcaggctct tcccttgga 360
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<210> 32058

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-G8

<400> 32058

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gggcgacggc ggcggcgccct cggaagcccg tggacgtgcc gttccagaag aactacgtgc 180
cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggagggtg cagctgtacc 240
tggacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300
gcatgcacat gaagctcgtc ggcggcgact cctggggcac cgtcacggcc ttctacctgt 360
cgtcgagaa cttcgagcac gacgagatcg acttcgagtt cctggg 406

<210> 32059
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-G9

<400> 32059

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aattgtttgt ggttcgtcca ttaaattcca catttcaagg gagattgttt atcattattc 180
ccaagctgtc atagatatca ttatcgcatg gtctgtaaca tgaccataat cttctaacat 240
gactctgggt tttttatcat actactatct aaccttttcg tcatttattt cctatatatg 300
gttactctat atccttagtc taatta 326

<210> 32060
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32060

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gcgcgagnga aggggngggg caccaggcc cacaaggcc cgaaccacaa cgcgcgccgc 180
ngaaacggc aacaagacga acagcaaaca acacatgaac cggagacggg gagcggagag 240
acgcncgcgn cacaacaaca cacacagacc ggcagcaaaa agcaacggaa cgcgccggac 300
gcacncaaag cacggaagaa agaggc 326

<210> 32061
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32061
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agttancttt acttagtggt ttgtatatgg gccatggcat ctgctaattgt gtactaccgt 120
tgcttcgtca cggggcttgc ctggggccacc agcaaccatt cgctcgataa tgccttcgcc 180
tcctacagct agatcctcta ctccaacgtc atcaccaacc acgagacagc gaggtctcgc 240
cgcttcgtct tcgttacctt ctctgcgac aactccatgc tcgacgctat ctataacatg 300
aacggcaagg atctcaacct ccctaaccat accgctaac 339

<210> 32062
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H11

<400> 32062
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cgacgcggct gttccttggc gcgctcctcc tctcgtccc cgccgcgctc ctctcctgc 120
tccgcgcgcg gggcaggcgc cgctccccc cggggccgcc gtccctgccg ctgctcggca 180
gcgtggtgtg gctcaccaac tcgcccgcgc agatcgagcc cctgctgcgg cgctcttcg 240
agcgttaagg ccccgctgtg gcgctccgcg tcggggcgcg cttgtccgtc ttcgtcgcgg 300
accgccgat cgcgcacgag gcgctcgttg accgcggcgc gacgctggcg gaccggccgg 360

cgctcgcgtc ggtcaagttc ctcgacgaga gcgacaacac catcac 406

<210> 32063
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-H7

<400> 32063

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actatgtgag aaaacacatc agttctctgc attagtcgat aaagttctgt caaacgttga 120
tgttctaaat gatattgtca tagcactgtc tgttatcttg tcagaaacta gccagattaa 180
gttcacattg ttgagagaca atagcaatga agcagaaagt aataacttag attgtgttga 240
taaagtgact ctacttgaaa ataaggtgca gcttgagcca gtaaaagaca atgttcctgg 300
tatctgcca ctgttgctc attcatcttc tgatcctgag tttgaggggc ctgctgatgc 360
tagattcgat gttaagactg cagtgaagggt gtactcgccg gagg 404

<210> 32064
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-F5

<400> 32064

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gactgcagat gatgttggtg ctcttcttgc tgtagactgt acgcctatgg atgacaatgg 120
ccgccagggt gatttggtga cagaatttgc taataatggg aataagataa catgtgatcc 180
agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240
tgtcctgcag gcttattctc ctgagggaatg ggaactggct acattgggtgc tcacacgacc 300
taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360
aagtctacag acaaaaattc ctaatgggcg cacaactcag ttgggtttta taactgcggg 420
tacaactctt ccatttaaca ca 442

<210> 32065
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H9

<400> 32065

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ggacgcagca cttccttttg aggatcatca tcctggccat gttccagatc atgctgatcc 120
accgcgcgca cagcaggtgc cagggcgccct tctacaccta cgacgtcttc atcgacgcca 180
ccagcaagtt cctcagcttc tgcaccaccg gcgacgagca gactctcagg cgggagctcg 240
acggcttctt cggccagacg tcccacgaaa ccaccggtcg atggggccact gctccggatg 300
gaccgtttga ctggggatac tgcttggatga acgaacagaa acagactgac ccaccctact 360
atggacgagg acccatacag ctaactcata agtacaacta 400
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<210> 32066
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-A1

<400> 32066

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atactttgat tactggatcat gcatcgacaa atgtgttagca tcaaagctct ttaagaagct 180
caaatgattt gtgcgatgtg atgcgacttc tgacaaagtg aatcgaattt gcatacctta 240
cacctttgga aagtgtatga gctcgtacat cttggaataa aacatcaatt cttctttgct 300
aaa 303
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<210> 32067
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D12

<400> 32067

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gggatttgag caccctcgaca tacaaaaaga agcgtccgca actgctcaag tactaccagg 120

gcgtgattga caacatgtac aaaagtgcta agtgaactca ctctacagta cacatcccga 180

tgaagattcc caacgctgaa tcttgaatga gcagccagaa gttctgctgc gtatatgctc 240

gtagtttgca tgcgagaatt ctctctgtat cagtttttca gaaacgattt gccttgggca 300

tatatatata gcaaaaccgg ctatgtggcc agcagccaag tggagacacc gtttcaaatt 360

gattgaacta tggcgaatac tgattgacag aagggttagg gcatgct 407

<210> 32068

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-D3

<400> 32068

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agaagcgggc tgtccccgct gcacatgaga cggccgtgca catcgtgtac gttgaccgcc 120

ccgaggacgc cgaccctgag gagttccaca tccggaccct caccctcgct ctccggcagct 180

aacagaaggc caggagcgca ntgctctacc actacaataa cgctgcagc ggcttctccg 240

cgaagctcac cccccagcag gtcaaggatc tcaaggagca accaggtgtt ctccaggttg 300

tgccgagcca gacttaccag ctacatggct ctgggtctgg cacttaccag ggcacgacac 360

acaccttggg ctttatgtga aggcgtttga gaatcaagaa gattgtgttt aagta 415

<210> 32069

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D4

<400> 32069

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gaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggcgcaa 180
 caaaaaaag accaaaagaa aaaacaaaga tataccacaa aatgaaagca aaaaaggaga 240
 gaacaaaaaa aattacactg ccagaaatta aaaaaatcaa aaaaaaaaaa aacacgcgac 300
 atacaaaaca aaaaccagac ggaaaaaaat aaaaaaatac aaacagg 347

<210> 32070
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D6

<400> 32070

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 tagtctcaaa gttgttgatg tttcaagtaa tgatttgtgc gggacgattc ccacgtctgg 180
 accatttgag catattcctc tgagcaactt tgagaagaac ccgcgcttgg aaggtccaga 240
 gctacaaggc ctggccatat acgacaccaa ctgctagagg caccacgaag aaaagaactg 300
 ctagaaagta acgagcgaac aaggttacca gaaattgggc gatatagatt tactaggtct 360
 ggatctgtaa tccttcctgc atagctctta ttcgtaactc gctgtctgca cgaaaagtgg 420
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<210> 32071
 <211> 260
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-D7

<400> 32071

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 acgcggcacg ggcagcaana gggcaaaaca aaccnggcgc acgacggncc aaacacaacg 180
 cacgaaccga acacgggggc gaacagacca acacaggggg aagaccgcag cacaacgaca 240

ggaacagccg acagccaagg

260

<210> 32072

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D8

<400> 32072

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51

<210> 32073

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-D9

<400> 32073

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aattgctagc tatggttatg ccgttatgaa ggaagaaagt gtatgcatgc atggtagggt 120

aaagagtggg taattaatat cgttgatcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaagaaaa 240

aaagctaatt acttgaaaaa aaaaaaaaaa caaaaagggtg cgaccttttt aaaattaaat 300

gctgctggac agacaaatgg cggggccgta aatttttata gggttaccaa attttaaaaa 359

<210> 32074

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E10

<400> 32074

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cgtcacccat ggccactgcc gacgtccaga ccccgaccgt cgtggccacc gaggaagcgc 180

cggtggtgga gaccccggtc ccgtccgccg tcgtgcccta ggaggctgcc cctccgtcg 240

aggccaacgt ggacgagcca gctgccccgg cggaaccga gccagctgcc gtcgctgagc 300
ccgaggctgc ccccgaggca gcgagggaag agacgcaaaa ggaggaagag acagctaac 359

<210> 32075
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E11

<400> 32075

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cgactgatcc aatagcacgg gcccttggtg cgctaatagcc ataactatgc tctctactc 120
cctcgagcat aggcaccaga tgatagctat gattcttact tatatgcatt caaccataat 180
ccgtcacact ataactctgc tccactagct tttcaaccca tcgcgattac cacttgtatg 240
aatcaacagt tcctctcata ctatgctgaa ttactaatct acagctcact cattaattca 300
gtcaaactat ctttctcac gaccgtctaa actcatttta cttctcatat cgtccggtta 360
acaatctac acttaactaa ttc 383

<210> 32076
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E12

<400> 32076

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gccggttgcc ggccgctacc aggagtctgc gccgtctgta tggggagatt tcttcgtcac 180
ctatgccact ccacgtctca ctgcgcatcag agcagcggat gactagagat agccctgctg 240
ctca 244

<210> 32077
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E4

<400> 32077

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gaaggacatt catcattggg cccgaggcct gctagttctc tgccatggac tacacttacc 120
ctctgtcgat gccgctccac gacgcagatg agctcaccaa gtggtccttc taccgctcgg 180
tcacgcgga gttcatctcc acgctgctct tactctacat caccgtggac accgtcatcg 240
tatacaagca ccacacggac acggcctctt aaggccccga cacggcgtac agtagcgtga 300
gcatacacgg catcatgtgg gccttcagcg gcatgatctt catcctcagc tactgcaccg 360
tcggcc 366

<210> 32078

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E6

<400> 32078

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acgccgagga gatttgata caggatgagc gtactctgac gaagaaaata acatggaatc 180
cagagatgca tagt 194

<210> 32079

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E9

<400> 32079

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atctcttaaa tatattacc tatccccaag gcttgggtcc cttcttgacc attcaatcca 180
atctttattc ccaaaatcct gattccacta atcatattt tggtaccact caaggaactg 240

gaactaccat tctgaccctt cttccgggat tccatccaca aacacaaact ttgttactta 300
cctatatttc tcatcatcat ttagctatct catttatctt tctcattgcc attcatatat 360
atccaactaa cttcacaatt ttgcacatta ttaaaccatct ttttataatc acatactcc 419

<210> 32080
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-050-Q1-K1-F1

<400> 32080

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cgaaggggct catcccgac tccgtcacct cctacagctt cgacgaggcc acgggcgcct 180
tcgagatcca cctgaccagc acctgctacg ttcacttcgg ctcccacctc gtctactacg 240
agaggaccat aaccggcaag ctctccagg gcgccatctc ggacctctcc ggcgtccagg 300
ccaag 305

<210> 32081
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F10

<400> 32081

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cctacgcgtg atccgcgaga ggaagatgga tggcgtagtt gttttcaccg acgacagcaa 180
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gcagaatatg cctcttccag tccaggggcc tgcttgcaac tcttcagggc atctgattgg 360
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<210> 32082
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-D11

 <400> 32082

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 aaaaagtcta atctacctca tgctacaata tttaatcctc agcaaccgta cagaaagcga 300
 ataacatata cttttaacga ttttccacaa tcaacactta cattgatcta gacactactt 360
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<210> 32083
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-F11

 <400> 32083

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 acactaacac ataatccac 139

<210> 32084
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-F3

 <400> 32084

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 cgaaggacat cgaagcatcg gggcccagag cggcgagtt ctggccaag gactacaccg 120

accctccgcc ggcgccgctc gtcgacgcgg atgagctcac caagtgggcc ctctaccgcg 180
 cggtcacgcg cgagttcacc gccacgctgc tcttctctca catcacctg gccaccgtca 240
 tcgggtacaa gcaccagacg gacgcggcgg cgtcggggcc cgacgcggcg tgcggtgggc 300
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<210> 32085
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-F4

<400> 32085

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 ataccttctc tctgctcttc cagccacac gtgagctcaa cgctacgtta atgggtccgat 180
 agctcaaggt ggtgttactg tacacattag ttg 213

<210> 32086
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A12

<400> 32086

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<210> 32087
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-A2

<400> 32087

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 cgccgccggc gagagccaga gaaacgacca agagcgcgcc cacagagacg cgacgacacc 240
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 caccagcca 369

<210> 32088
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-A4
 <400> 32088

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 aacaaggggtg gctgaactat agaggccctt gattacacag gccgatccgt gtgtctgggt 120
 ggatgcaccg ggggagaaac tgcattcaca aatcctcaaa gcacattctg catgtctcac 180
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 cggacgcacg gcgcgaacgc gcacttgcaa gcccgggtgca gccacaccg tacggaccag 360
 gctggcacag tgtatgaaac cagaaatgcg gtatgtgact gacatggaga tgcaa 415

<210> 32089
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-A5
 <400> 32089

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tccaagggcg ccgccaaggc cgatgccaaag ctggcggtga agagcaaggg ggcggagaag 240
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agcgctttct tcgggttcat ggaggaattt cgcaaggagt tcaaggagaa gaaccctaag 360
aacaagtctg tcgctgcggt gggaaaagct gctggcgaca ggtggaaatc cctgagcgag 420
tcggacaagg ctccctatgg agccaaggct aacaagctca ag 462

<210> 32090
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A7

<400> 32090

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gacaacgaca gctattttgc agaacgcaat caccatatgc aatgccacat caattttcac 180
attgtcctgg atcgggtctc tttttctagt ttggatttgt tctgctagct aagtagctct 240
cttattcttc cagttcatag gtgtgctatt ccttttttcc tttttttgtc aagtgtctct 300
cattgattca aggtcacaca ggtttgattc tgaagcttga ttttttttgt gtatcaactc 360
tgccctgctgt gttcttcttt ggttttgaga tgagttgagg tttgaggag cgataagtat 420
gtacagcaga atgcccgcac tgtaacatca caata 455

<210> 32091
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-A9

<400> 32091

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gccatcttgg caaaatcgcc atttctgcca ctttagatgc tctttaagct gcaacatcat 120
ttccataaca tgaccaatca cacctacctt aaaactctct accatattat caccttcttt 180
tccatccctc ttgcacttac ttcc 204

<210> 32092
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-B2
 <400> 32092

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ttaacaagtt cttcactgac cctaagtga gcatgttgat tggcatacta ctactactac  180
ttgctactgg ggattttaca ctttgctggc aactcaatat gttggggaca tccatgacct  240
ctaaaagtac tttgagcgtc tggatgatgac ttggtatatg tatgatgggtg gatgagtttg  300
atcgtccatg cttgatgttc atattcatct gtcactctgga tttgccgcac ttcagtata  360
aaattgtcat ttggat
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<210> 32093
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-B3

<400> 32093

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acgggcaaaa agtccttcac tgaccctaag tgaagcacgc cgactggcat agtactacta  180
ctacgtgcta ctgaggatct cacacaatgc tggcaactca agctgttggc gacatccatc  240
agctgtaaaa gatctttcag cgctagatga tgactcgaat tacgtactat aggaacacga  300
aacagagcct acattcctca cggacatctt caagtgccat c
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<210> 32094
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-B6

<400> 32094

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gatccgtgcg acgcggggct ggatctcagt ggatcgtggc agcaaggcca ctctgccact 120
tacaatgccc cgtcgcgccc acgcgtccga aaaaagaaat actacaacta atactagcta 180
cagaaaaatt aaaaaatcgg atagcaacat aatatgaggg cggacactca tgagctccca 240
aaattcctgc cagcgtcttt gcgatgacca tagcttatgt atgggtggcag gtaagtctaa 300
tccattggtg ccagggttga caacttcgag tctgataa 338

<210> 32095

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-B7

<400> 32095

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gcaggaaatg atcgtgagca tggcgggtggc cggcgcgatc atcggcgcgcg ccgtcggcgg 120
gtggaccacg gaccggctcg ggcggcgggc gtcgatcctg gtggccgact gcctcttctt 180
cgtgggctca gtgagaatgg cgtaggccac gcgccccgcg ctgctcgtgg tgggcccgt 238

<210> 32096

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-B8

<400> 32096

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gcgccggcac tgcccggcac ggccagcggc tccggcgaag gcggagctcg acacgggggat 120
tccacatacg ttaatcggtc ccaccggatc cctcgccgcc tcccacgggc cgggccgcgc 180
cgtggcgcgc gcgcaggccg agatgcggaa gaggatggag agcgtcgacg atctgatcga 240
ggaggcaaaa ctgcgcaccg tctgggtggc gctctgcac ttcgccgtct cctacttctt 300

cacgcgtgag cacgtcccc tctgtccctc tctgcttccg tgcctcattt gcgaccgaat 360
 tgggtgtgcg gctcgtgtgg gccccgagaa ggaccgggcc gggcata 407

<210> 32097
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-C1

<400> 32097

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 caaacaaaaa aaaaaaaacc acaaacaaaa aggggggcccc ctccaaaggg cccaggggtc 180
 aactccccgg ccttccaacg ctaaagtact aataggggga gcccaacgct caatccccgg 240
 cccgggggttc aacaacttcg taccgggaaa accccggggc tcccccaaga aaaccccggt 300
 gcacaacacc cccttttcgc cagcggggat acaaccaaaag ggcccccaacc caaacgcctt 360
 tccaaaaatg tgccccccca aaagggcaaa cgggaccccc cctgaacggg ccataaac 419

<210> 32098
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-C11

<400> 32098

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 tactgcnaat acgaccgcat aggcccgct cccccggtct actgcggtta cggccagcca 120
 ccggcaccgg acccgtagcg cctcgcgccc gtctaccccg atccgtacgg tcgacctccg 180
 cccagtcgg cgtacgggtg ggcttgggac tctactgcc acagcggcca aagctactcg 240
 cccccgccgg cctactgcgc ctgggggtgg tacggcaacg tcgtccacgt ctgcacgat 300
 gtctgtact agaggcctta ctactgtgc tgctgtgtgt gtcttgggtg cgcta 356

<210> 32099

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-C12

 <400> 32099

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 cgagtgagag gggggaaatg ctgcgccacg ccgcccgcgg tctcgtctcc cgcaccgccc 120
 cggcgcccac cgcgcgcggg gcgctcgtca cggcagaggt gcctgcggag gccgcccagg 180
 actccacgtt tgtggagacg tggaagaagg tcgcccccaa catcgagccc ccaacgacgc 240
 ccctcttcct catgcagccg cgcccgccca cgccggctac catccccact aagctcaccg 300
 tcaacttcgt cctcccctac aagtccgaga tcgccaacaa ggaggtggac atggtaattg 360
 taccagctac aactggtcag atgggcgttt tgccaggcca tggtgccac 409

<210> 32100
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-050-Q1-K1-C3

 <400> 32100

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 cgangtggtc accgtcaccg gcgagggcga gtactagagg tacaagaagg aggagaagga 120
 gcacaagcac aagcagcacc tcggcgagggc cggcgccatc gccgcccggc ccttcgcact 180
 ctacgagaag cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga 240
 ggaggtcgct gccgcggcgg ccgtcggcgc cggcggctac gtattccacg agcaccacga 300
 gaagaagaag gaccacaag 319

<210> 32101
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-050-Q1-K1-C6

 <400> 32101

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 ggagccacat aaagggacag acttcacaga acccaactca aggaaactgg atcgggccta 120
 taaagccaaa gatttgaacc tatcaggaca tcaactgccgc aggaccatcc caacg 175

<210> 32102
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-C8
 <400> 32102

atatgttttag cagcagcagg tgtattgtgc gggatatgtaa tggatttgca actatattgg 60
 gtgtaaaacc ataataaatg tgggcaaata tgcaaggaaa aaaggcttct acttct 116

<210> 32103
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-D10
 <400> 32103

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180
 ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcctg gggacccaga tcaatatatc tgttatgtag cttatccatt agacctattt 360
 gaagagggtt ctgttactaa catgtttact tccattgtgg gtaacgt 407

<210> 32104
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-050-Q1-K1-A11
 <400> 32104

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ggcagccagg atgacagaag caccatttct gccacgtgag aggtctttca agctgcaaca 120
tcatttccag aacatgacca agcacaccta cctgaaaggg cgctacgatg tgatcacctc 180
cgttgccatc cctcttgcaac ttgctgcctc cagcatgttc atgattgggc gtggagttta 240
caacatgtct catggaattg ggaaaaagga gtgatctacc acgggttaac tagtttttct 300
acttggcatg gaagtaccat ccagactatg aagtcttctt tgcttgctaa ataatactgt 360
caaagaacaa gtcgactaca tttttgcatc atatttctgt ttgtatttgt ggata 415

<210> 32105
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G2

<400> 32105

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gtacgaccca gagggctact ctttgtggtt ctgtgactac aagtacaatg atgagaacac 120
cgtctccttt gtgaccctga acaagggttg tggattcctg cagcggatgg acctgtgccg 180
taagtacgcc tttgggaaga tgctcgtgat aggtcttgag ccacccttca agctgaaggg 240
cctttggctc ttccgtggcc aggatgttcc caagtttgta atggatgagg tctatgacat 300
ggagctctac gagtggacca aggtggacat ctctgatgag gccagaagg agcgtgtcaa 360
tgcgatgatt gaggaccagg agccctttga gggcgaggcc ttgcttgacg cgaaatgctt 420
caagtgagtg tgcttgctg gagacagaac t 451

<210> 32106
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G3

<400> 32106

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cgacgtgtac gccgagtacc gggcgatgca gatcacggtg cccaccgcgc tgccgccctt 120

cttccagccg cccaacgacg ccgcgcgtctg ggcgcccttc ctctccgcct acaacgtccc 180
 gctgccgccc tacctcgcca ccgcgctcac acaggacgag acggcgggggt acctgctcgt 240
 caccatccgc gtcgacggct ggatccgctg gaaggccggg gccttcatca ccagccacta 300
 ccacctcagg gtgcgctgcc ccgcgctgct caccgtcaac gacggacaag gaagctacgg 360
 ctccaacgcc ggtggagggc tcggctactt caagttccag cgcgcagcac cctgcctcgt 420
 agacgtctga gatcgatctc gatcacaaat cacatttaag ag 462

<210> 32107
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G4

<400> 32107

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 catgctttct acgacccctt tattaccctc acctgccatc ttttaacaat gcagtgactg 180
 gcaaaatcct ggtatcacc c ttttaaacg cttctctcaa caatctcttt tccacacctt 240
 acgttatcgc aactttgccc atccccattt ccttaccctc caaacctctt accttaatgg 300
 ccaaattacc cccccctata 320

<210> 32108
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G5

<400> 32108

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 gtatcgtaaa tgtgggggga atatgaactt tcgatgctgg gactggggcc gagcactgtg 120
 gatactgctg ccagagactt actaaaagaa catatatatg cagctctaga gaggggctat 180
 acatgcaagg aa 192

<210> 32109
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G6

<400> 32109

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ctgcttatca ttgttggttac agcaatgggc ccacattttg tggtcaaggc tttaacagaa 120
cacttaagcc caacgatatt caaatcggcc gtgaaatgga aaaatttgca aatggcaatt 180
aagtgaaccc ggtggaattt ccaaccagag gactttcatg acaatagtag ggaaactata 240
gtatttcgtt cttttcttat tttcacgtct ttcccccta ctggtgtgaa taggagctga 300
ttcatttagc tgtaagggtga taggtttaat ctctaattgt catgtatgta ttctgataaa 360
atttacagaa aaggaaatag aagtccacgt acaagttttc atctgcttgt tgcagcatta 420
ttgcaggcta aattt 435

<210> 32110
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G7

<400> 32110

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ctcaattgat gacctaacag ttctaattgcg ctgacaccta gtagtcccat ctgcacatgc 120
catcgtcttg attgtgtcgc tgtcttgatt gtgtcgtctg ctacctatgt tggcacatca 180
ttgttgatg gatatacatg tctaaaatgg gccaggtttg ctaggcggcc catggcctgg 240
cacagtttaa cctggcttga gcatgatccg gcccgttgtc cactgggccc atgctagtct 300
ggcttgatca ccgtgtcgtg catgggcctt aggtgcagca cgacgggcta gaccgggtac 360
agatcggttt tttttcccta tttttcataa aaaatatcct tattatgctt gattatagaa 420
tataaaacaa aaaatatgtg tgtaaagggtg gagtg 455

<210> 32111
<211> 323

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-G8

 <400> 32111

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 gtgctggact tactgtctgg cggcaaaagc acagcgctac ccaacttcgt gcaccgtcgc 120
 agcttgagga gtttccgggg atgaaaggct atcccatgca acatcgacta gttcatgtct 180
 cgagcacaga gcaaagacat atgtgacgtg tctaaaacat atgtcgtact ttatgtattg 240
 taccaattaa acatttaatg aacttaattg atcaaataag ttaatggctt gaatgacct 300
 tagtttgaat ccatgttttg agt 323

<210> 32112
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-G9

 <400> 32112

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 gcctgtcacc ctcgcgagtc cgcacctccc gcagccgcgcg cacagatggc acccaaggcg 120
 gagaagaagc cgggtggccaa gaagcccgcg gaggaggagc ccgcgacaga gaaggtggag 180
 aaggctccgg cggggaagaa gcccaaggcc gagaagcgcc ttccggcggg caagtccaag 240
 gagggcggcg agggcaagaa ggggaaaaag aaggcgaaga agtccgtgga gacctacaag 300
 atctacatct ttaaggtgct gaagcaggtg cccccgaca tcggcatctc gtccaaggcc 360
 atgtccatca tgaactcctt catcaacgac atcttcg 397

<210> 32113
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-H1

 <400> 32113

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cctaccccaa cttgcttggg ataaaaggct ttgttgttgt tgttggaatg taagattgtt 120
 tgtttttgaa gccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180
 aaaagataaa ctaaataaaa aacatagcta aaaa 214

<210> 32114
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H10

<400> 32114

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 gtcctataaa gtggatgacg cgaatgcgcc gagaatgatt cttctcgtta ttttctacgc 180
 gaacgtcatc ttgctggctg aaattaagaa cgtcaggatc tacatcgaga cggcaactgc 240
 cgtggtgata tcttacgtgt cactacttaa aatcagctgg agttacatct ggctcgttct 300
 cttccccatt gtggcgatcg gttcatcgt tgcctctgtc aaggagctca gtcacgagga 360
 cgaggccggt ggatcacatt cacaggagca gagcaatgaa ggtgaaagtg aaagcgaagc 420
 tactacgtct tcatgggaaa aagttcatgc tggg 454

<210> 32115
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H11

<400> 32115

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 caaggtcgac ggccgcgtgc ggtggaaggt cggcagctgg atctccggcc actaccaoct 120
 cttcgtcacc tgccccgctg tctcgtcac cgccggcggc aacggcgccc ccggcgcttc 180
 cgggttcagg ttccagacca ccacgtactg ccacgtcgag gttaattag gagcgagagg 240
 aagcagagac catggctacc tctctagctg ctgctcctgc cgttgcctgg tgtggtaata 300
 actctctcta tctctctctc tctctctgtc cgctgctggc gttactactg cagtagtgca 360

gtgatgcggg atgtaaagga ggggtaaaaa aaattccttt cgttctagcc aaaagcaaaa 420
ctacta 426

<210> 32116
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H4

<400> 32116

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ggatataagg catacccagt aaagcttaca agtaaaccag atatggagat ggcgactaaa 120
gttgctgttt ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180
atttacaact acaacggaat agtatacaaa gtcaacacca atgattaaat agaatttatg 240
gctacacaaa ccgttgaaga tagttctaga cctaagccaa aacggactgg cgcaggtagt 300
ttattgaaac ccttgaattc ggaatatggg aaagttgctc cgggttgggg gactactcct 360
tttatggggg tcgcaatggc tttattcgcg atattcctat ctataatttt agaaatttat 420
aattcttctg tttaactgga cggaatttta acg 453

<210> 32117
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H5

<400> 32117

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ggatataatg catacccagt aaagcttaca agtaaaccat atatggagat ggcgactaaa 120
gttgctgata ccatttttat agaatttcaa gattacaatg gatctatgaa aagatcgtgt 180
atttacaact acaacggaat agtatacata gttaacacca atgattaaat tgaatttatg 240
gctacacaaa ccgttgaaga tagctctaga cctaaaccaa aacctactgg cgcaagtagt 300
ttattgaaac ccttgaattc cgaatatggt aaatgttggt cattttgggt gactactcct 360
tttaatgggg ttccaatggc ttttattttc gatattccta tctataattt ttaaaaattt 420

taattcttc

429

<210> 32118
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H6

<400> 32118

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tgtaacgcaa agctctctga ttttgggctt gcgaaagacg gacctgtagg tgataaaact 120
catggttcta ctcaagtaat gggaacctat ggatatgcag aaccaaattt tgcaaggact 180
ggtcttttac cttaaagaat ggtggctacc agtttcgggt tgggtgcttct tgagatgatg 240
tcaggccgca ggtcgatgga caagaaccgc ccgaacgggg agcacaacct ggtggaatgg 300
gcgcgcccc tcttaggcga gaggcaacgg ttctacaagc taatcgacct ttgcctggag 360
ggcaacttct 370

<210> 32119
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-H7

<400> 32119

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gccggccggc cggagatctg attgctctta tcttctcccc tcccgttcat ccaatctgct 120
gtcaccatat ctgatctccc tctccccctg attgcccgcg gtggccattg cctcgctcgc 180
gtctccttcg ccgcgcttct aggaagattc ggcggcgtgc ccatttgctg gtcgtagcct 240
taaccagttc ttccccaact ccgagctcct tcttgcttg ggagcagctg cacacacatc 300
cgcccaggat attagttagc gtggaggatg gcgtccaggg acttcctccg cgtcttcggc 360
gccggtgagg gggcggggcc gccgggggac gccggcgccg gccagcccga cgacgacgag 420
ctc 423

<210> 32120
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-H9

<400> 32120

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 tccagtctcc accgatggcg atcaagaaca tgacggtggc ggcgacgacg cggctcgctgg 120
 acgcggacat gacggtggac gagttcaagg agtggctgcg gcggttcgac acggaccagg 180
 acgggcgcat cagccgcgac gagctgcggc gcgccctgcg tgccatccgc tcccggttca 240
 cggggtggag gagcaggcag ggcatcagtt acgccgacgc tgacggcgac ggctacatcg 300
 acgacagcga ggtcgatggc ctcatcgagt tcgcgcagaa gaacctcggc ctcaagatcg 360
 tcgcctactg atctcacatg gggcgcgggc cgcggcggtc gnggggtggg acgcactagc 420
 tcgccatgag c 431

<210> 32121
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-G12

<400> 32121

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 gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgctc gatgttgagt 120
 accgctgctt cgtcggcggc ctgcctggg ccacggacga ccactccctc cacaacgcct 180
 tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcaaaggt 240
 cccgcggctt cggcttcgtc accttctaca cggaggaggc gatgctgaac gccatcgagg 300
 gcatgaacgg caaggagctg gacggncgca acatcacctg caacg 345

<210> 32122
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D7

<400> 32122

cccacgcgtc cgccacgcg ttcgaaataa ataaaaaaaa aaaaaataaa ataaatatgt 60

aggaaaaaaaa taaaaaaaaa taaaacttaa ataata 95

<210> 32123

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D8

<400> 32123

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tcacaggctt ctagacgttc cgaggaggag gggaggtagc cgccgccgca gccatggcgt 120

cgaccaaggt ccagcgtatt atgaccagc ccatcaacct catcttccgg ttcttacaga 180

gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 240

ttatcggatt cgatgagtac atgaacttgg tcctcgaaga cgctgaggaa atcaacgtca 300

agaaaaacac taggaaatca ctgggccgga tactcctcaa aggtgacaat ataactttga 360

tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttggtg ctgcgttcga 420

ttatctgtga cacaatgtac tcca 444

<210> 32124

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E1

<400> 32124

gaccaacttg gtgccctacc cgaggatcca cttcatgctt tcctcctatg ctccagtcac 60

ctgtgctgag aaggcctacc acgagcagct gtctgtggcc gagatcacca acagcgcctt 120

cgagccatcc tccatgatgg ccaagtgcga tccccgccat ggtaagtaca tggcctgctg 180

cctcatgtac cgtggtgatg tggcccccaa ggatgtgaat gctgctgtgg ccaccatcaa 240

gaccaagcgc accatccagt ttgtggactg gtgcccaact ggctttaagt gcggcattaa 300

ctaccagcct ccaagtgtgg tgctgtgtg tgacctggcc aaggtgcagc gcgctgtgtg 360
catgatctcc aactccacca gtgttgtgga ggtgttctcc cgcacgacc acaagttcga 420
cctcatgtac gccaaagcgtg ctttcgtgca ctgggtatgt 459

<210> 32125
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E11

<400> 32125

ggatcccggt cgcccacgcg tccgcccac atactcttacc ttatcgtatc cttatttacc 60
ttcaaaactt acatgggtact gtacctatta gacctcttaa cttacttgtt atacttacac 120
tccatgataa ccattgtatc attttttttt taaccaatat tatatataga cttttatcat 180
aaaaatgatt ttaaaatcta tgctcacata tatgatcact ttttatacac attttttatc 240
cttttctcaa tactgtatca aacacattat atactttgta aacatcttct attt 294

<210> 32126
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E4

<400> 32126

cggacgcgtg ggccgacgct tctatcaa atttcttcta tttagaaatc taaattta at 60
ggaaggggtc ttaaatttaa aagtcattaa tat 93

<210> 32127
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-E8

<400> 32127

gctctctctc tctattcgtt ccccgctca ccccgagcca gccgtctcgc tagggtttcg 60

ccgccgcgcg cgcgcgcgc gccgctatgc ctgcgcgcag ctccaggaagg tctgccccac 120
 gccagctcc ccgtgctgct ccagtgagga acccgccaca gccagcacgc caggctcctc 180
 ctccagctcc tgttcgagat ggtggtggct ccatgtttgg aggaattggg tccaccattg 240
 ctcaaggtat ggcgtttggc acgggtagtg ccatggcaca cagggtgtgt gatgctgtat 300
 taggtccccg gaccattcag catgagactg ttgcctcaga agctgctgct gctgccccctg 360
 cccctccagt gatgaatgct gacgctngca gcatccattc taaggctntc caagattggc 420
 tcaacaacta tggcagcgag at 442

<210> 32128
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-E9

<400> 32128
 ctcatcacca ccttgtatgc agtttcccta gcaacagtga tagtcctcct cctttggtgg 60
 cacaagcccc cagtcgtggg gaaagccact gccgttcccc gcgacgagaa gccacggcga 120
 cgactgccgc ctggggccatg gacccttccg gtcateggca gcatccacca cgtggtgcgc 180
 ggcctaggac accgcaccat gatggagctg tcccgtcggc acggccccct catgttcctc 240
 cgccttgggc aggtcccgac gctggtggtg tccagcgccg aggcagcgga gctggtgatg 300
 aagacccacg acctcggctt cttgctccgg ccgaccacca gcgtcaccat cgaca 355

<210> 32129
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F10

<400> 32129
 acccacgcgt tacgcgactc attgaccata ctagccaaac ttccgacttg acaatgtatt 60
 ccgaccagat cgagccgggg aggtctcttc ttggagccaa aatgaggggc agggccacac 120
 ttctaccca ctgaataagt ttaataacga tcaacgtagt gggattacac ttgcgccccg 180
 actctccac ttatcctaca cctctgaagt catttcacaa attcggacta tactcaaact 240

caacagggtc tactttatgt gctgattgca tcaatcccggt ttctttaaat gt 292

<210> 32130
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F12

<400> 32130

cccacgcgtc cgtgctgacg ctgcccgcg tgggcttccc gcacgacgcc gcgcgcgggt 60
cgcgagacgcc caacagcccc gagaggtgaa aaccccggt cccggcctgg agtacgcca 120
aggctctggcc caacagcaac ccgcgcccg caaccaagcc ggctggatcg gttggctgga 180
cacgcttgaa gccgccgacc aagtgccgcg gctgggcaac tgggcgacg gctttcaacg 240
ggcctggatt gaccggtgga tcgaactaag gccgacc 277

<210> 32131
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-F2

<400> 32131

ggaccagaaa acatgcaggc gattcaagtt gaacctgtgg cctcatcatt gaattcatca 60
tattggtaca ttctacataa tggaaacact gtgttcactt gggctggaaa tctgaccact 120
gcattggacc aagagttaat ggaaaggcag cttgatgtta ttaagccaaa cacacagtct 180
aggtcacaaa aggaagggtc agaaacggac cagttttgga gtttactggg aggcaaactct 240
gagtactcag gccaaaaaat ggtgcgagaa ctcgaaagt acccccatct tttctcatgc 300
atcctgtcga aaggcaatct gaaagtcaaa gaaatacacc actttactca agatgatcta 360
atgacagaag atgttttcat tctggactgt cacacgagca tatttggttg gggttggtcaa 420
caggtggatg ttaaaagcaa gttacaagct antggatgct ggg 463

<210> 32132
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F3

<400> 32132

cccacgcgtc cgaccacgcg tacgcccacg cgtccggcca cgcgttcgca aatccccccct 60
tggccttgcg aggggggctga ggggaggtgg tacgtggtag tggtagtggg agggatatata 120
ggagtgtctt gcccatggag aaggcggggc aacaacgcca tgtcatcggc aggcagcagg 180
caagaaggcg cccgcgctgg ggctgcagaa gcagaactcg gggtcgacgt gacatcgagc 240
gcgacgagggc ttgggagcgc cggcgcaggg agcatgcgca gcgggggcac agcgtgtctg 300
cgcgtctgca gcgtcacgga cgacgacctt gacgagcttc gaggatgcat cgaactgggc 360

<210> 32133

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F4

<400> 32133

cccacgcgtc cggagaccga gatctcgccg atagctagca tcatggcgtc caaggcgtc 60
ctcgtggtag cgctcctgct cgccgccacc ttctcgcgg cctccgctaa cgagcaagcc 120
caggcggcca aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcggctac 180
ccgggggcacg gcggcggcgg cagcggaggc taccgggggc acggcggcgg cggcggcggc 240
ggctacccgc actgccggtg gggctgctgc aaccgggggt accatggcgg ctgccggtgc 300
tgctcgcacc ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgagggtccac 360
aactaaatag taatgagatg cgctgctact atatatacgg gtacgtatgc ccgatgggaa 420
gcagagcaca cgcgtagtac gctc 444

<210> 32134

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-049-Q1-K1-F6

<400> 32134

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catcgacatc ctcatcgcca tcctctctccc gcctctcggc gtcttctctca agttcggctg 120
caaggtcgaa ttctgggtct gcctctctgt cacttctctc gcctatctcc ccgggatcat 180
ctacgcgata tacgttatca ccaaggacta gccagctagc gccgtaaacc gggacaaggt 240
gagagagcta gctgatcagc cagcggagggt aatggagatg aacgtactgc tgagatcact 300
ttaatttgcc ctgttgctca atgtttctgg atggagactg aatctcagct gtgctgtgat 360
tctgctatat agcttgtgcc gcctgttctc tattcactag tcgggtgctcc cgcgtaatat 420
ttctctcaga ctctngtgct atagtatgtg atgcatgcaa a 461

<210> 32135
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D5

<400> 32135

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gcctgttcgc aggatggcgt gttgagcatc atcacccggc ccatgttcca tagcatgctg 120
agccaccacc gctactgcat gtgccaaggc gccttctaca cctacgacgc cttcatctag 180
gccgccagca agttccccgg cttctgcacc accggcgacg agcaaactcg caggcaggag 240
ctcgccgcct tcttctgcc aacgtccac gaaaccacca gtggatgggc gactgcttct 300
gatggaccct ctgcctgctg atactgccgg ctgaaggaac ataaacagac ggaccacccc 360
tactatggac gacgacccat acaactaac 389

<210> 32136
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F7

<400> 32136

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cggcgacatc ctcatcgcca tcctctctccc gcctctcggc gtcttctctca agttcggctg 120

caaggtcgaa ttctggctct gctcctgct caccttcctc gtctatctcc ccgggatcat 180
ctacgccata tacgttatca ccaaggacta ccagctagc gccgacatac cgcgacaagg 240
tgagagagct agccgatcac acagcgtacg taatggagac taacgtactg ctgagatcac 300
tataattagc cctgtcgatc aatgctactg gatggagact gaatctcagc tgtgctgtga 360
ttctgctata ta 372

<210> 32137
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G1

<400> 32137

cccacgcgtc cgcccacgcg tccgcaagca actgcaaagc agcaagctct actcttcttc 60
tgtactgaac gtgtgactag ataacaacaa gcgtgaacca tggcggacca agtacggccg 120
caacggctac cggaggtccc gcgccggcga ccactaccac agcgggttca acagcaagtc 180
cggcactgat gactaccggc gtggcgaaag tggctacaac aagtcggggc gcgattacca 240
ctaccggcgc aacggcggcc atgggtacc 269

<210> 32138
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-G11

<400> 32138

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cggacgcgtg gggagcgatc ccaactccga tcagcagctg atcgctcact cttgcagctc 120
gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 180
tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccca 240
ccgtcgtggc gaccgaggaa gcgccggtgg tggagacccc ggctccgccc gccgtcgtgc 300
ccgaggaggc tgcccccgcc gccgaggcca aggtggaaga gccagctgcc ccggcggaga 360
ccgagccagc tgccgtcgct gagccccagg cggcccccggt ggccggcggat gaagagacgc 420

caaaagagga agagac

436

<210> 32139
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B3

<400> 32139

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cggcgggcggg ggcgagggcg agggcggaagg cagcgggagc cctggcgctg gcgctcgtgc 120
tcgcgctagc gggggccaac tccgagggcg acgcgctctc aagcgctgcg ccgcagcctc 180
agggaccccg gcggcgtgct gcagagctgg gacccacgc tcgtcaacct ctgcacctgg 240
ttccacgtca cctgcgaccg cgacaaccgc gtcacccgac tagatcttgg taattcgaac 300
ttatctggtc atctggtgcc tgagcttggg aaattggagc atctgcagta cctggaactc 360
tacaagaaca gcattcaagg aacaatccct tctgagctta ggaatttgaa gaatctaata 420
agcttggact tgtacaagaa caacatgttg gggaca 456

<210> 32140
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B4

<400> 32140

cccacgcgtc cgtttttgtg cccttaccat actctgctgt tgcttgagaa tatgttatta 60
gtctgtccta gct 73

<210> 32141
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B5

<400> 32141

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cggggatgat gacgatgtcg gagccctcca ggcctcccc gagctggtcg tcccccatga 120
 accccttcac cagggcgggg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180
 cggcgatatc gtagaggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240
 gcggctgccc gatgccacc gccgcgcca ggatggccac cttccgctcc ggattggccg 300
 aagacgcgta gccgcggctg cagcggagga gtcgggcgt ggacttcagc agcgacggcc 360
 tcatggcggc ggctgggtcg gggatcactc gtcgggcgt gtctcgctgt ggattggtgg 420
 ggggagcggc agtgggcggc ggcgagaagt gaggggagca c 461

<210> 32142

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B6

<400> 32142

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ttgatcctac atactaca 78

<210> 32143

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-B7

<400> 32143

cggacgcgtg ggaaaaaaaa aaaataaaaa ataaaaaaaa aaaaaaaaa aaaaaaaaga 60

aggcgaaaat ataaaaaaaa aaaaaaaaa aaaaaaaaat actaaaaaaaa aaaatatact 120

ataaaaaaaaa ataaatataa taaaaataaa ctacaattaa aaaactactt gactattaaa 180

aactttcaat ttttgaaatc aatcctttta tagaacatat tttttaatgc gcatcccaaa 240

ttaaataag atggctcgac ttttaaaacc ttctgaactt taaaacatca tgaatcacta 300

atttaactcg ctttgatca aatcattttt tgcggagttg cagtattttc aacaagacca 360

gaccggttaa cttttcaaaa 380

<210> 32144

<211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B8

 <400> 32144

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 cttaacatac ctctgggtcac attccatact tttactcctt atatattaca tataactatg 180
 caatatataa ctttattaat tcctacctat gcttatcatc aggttgaact ctgaactttg 240
 acttccaaaa ctgcacaatc atcacacgca tgtgcacagg accgaagttt ccagccagcc 300
 aatgctgagc cgcactcatg gaattcgcgt gcccttttaa caattacc 348

<210> 32145
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B9

 <400> 32145

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 ttgtaggtgg gttagattcc aatgtaaatg aggagtatct aaggcaaatt tttactctgt 120
 atggagaaat ttcttatgtg aagattcctg taggcaagca ttgtggattt gttcaattta 180
 ccagcaggtc atgtgctgag gaagccatcc gaatgctgaa tgggagtcag gttggtgggc 240
 agaaagtctg gctttcatgg ggccgtagtc ctcaaaacag acaggcttct cagcatgatg 300
 ccaacaacca gtataatggg aacagctatt atggatacca acagccgggt tatgaaggtt 360
 atggctatgg tgctttcagt gcacaagaac caagcataca aaactactac ggatactc 418

<210> 32146
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-C12

 <400> 32146

atgaaagacg gaaaaaaatc attggcttat caaattctct atcgagccgt gaaaaagatg 60
caacagaaga cagaaacaaa tccactattg gttttacgtc aagcaatacg tagagtaact 120
cccaatatag gagtaaaaac aagacgtaat aaaaaaggat cgacgcggaa agttccgatt 180
gaaataggat ctaaacaagg aagagcactt gccattcgtt ggttattaga agcatcccaa 240
aagcgtccgg gtcgaaatat ggctttcaaa ttaagttccg aattagtaga tgctgccaaa 300
gggagtgggg gtgccatacg caaaaaggaa gcgactcata gaatggcaga ggcaaataga 360
gctcttgcaac attttcgtta atccatgaac agaattctagg tatgtagaca catggatcca 420
tacatctcga tcggaaaaga atcaa 445

<210> 32147

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C2

<400> 32147

aacactgcat gtgttccgta ttgtgaggcc attttaagga atgcagaaag atgtgtttga 60
gtgaaaaaga tttctgctct gaagaggagc acatttctcc aataaatttc aaatcgctaa 120
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240
gaagtctctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcaggt 300
gtctatatat ataatatgat ggaagcagag aagaatggaa acattcttat gcaaaagtat 360
gaggttggaa aattattggg gcaaggaaca tttgccaaagg tataccatgc taggaacata 420
gagacctctc aaagtgttgc tatc 444

<210> 32148

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C3

<400> 32148

aacactgcat gtgttccgta ttgtgaggcc attttaagga atgcagaaag atgtgtctga 60

gtgaggaaga tttctgctct gaagaggagc acatttctcc aataaatttc aaatcgctaa 120
taattcttga tgagcgagga tttcaagcac acattagacg catagtagaa aatagctgtg 180
atgcaactga tgtcagaaga aatatcgcaa tgctatgtca tataatttct gaagacggct 240
gaagttctct ctttaccgac ttgtcgtcct acgagttcct acaatcagtt ggtagcacgt 300
gtctatatat ataatatgat ggaagcacag aagaatggaa acattcttat gcaaaagtat 360
gatgttggaa aattattgcg gcaaggaaca ttttccaag 399

<210> 32149
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C6

<400> 32149

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caacaagaag ctggtgtacg tctacgacga cttcgccgtg acggccgccca cggccgccaa 120
cgccgtgccg ctggggcgcg ccaccgcgcc cggttcgcg caccaggccg gcaacgtcac 180
cgtcatccgg gccaccgtct ccgcgtccgc gctcgcggtc gaccccgccg cggccggctc 240
cgacgtcaag aggtccggcg agttcccat cgtcctggac ctggagacca gggccggcgt 300
ccgggttggc gcgctcagga ccaagaagat cggcatcctg gtgcactgcg acggcgtcaa 360
ggtggccgcg cccgcgcccg cgccggccaa ggaga 395

<210> 32150
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C7

<400> 32150

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tgcgcgcgct ggacgacacc ctgccggcg tccgcggcct tgtagcgtct ggtgcgaagc 120
aagttcctcg catctttcgc gtcccctacc cggaggagct actccacat gaacaaccgc 180
cagcggcggc gaccgtcccg gtgatcgatc tcagcggcga ccgcgcagcc gtgatcgacg 240

ccgtccgtgg ggcggcgccg ggggtgggggt tcttccaggt cacgggccac gcggtgcccc 300
 agcaggtgat gtcagcagcc gtggcgccga tgcgggcgtt ccacgaagcc gacggcgggg 360
 agggcagcga caaggcgccg ctctactcgc gagagcccgg gagggcggtc aagtaccact 420
 gcaacttcga cctgtaccag tctcccgtgg ccaactggcg 460

<210> 32151
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-C8

<400> 32151

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 gacaattggt caccggaagt gcttctaggg tttcacaagt tcctcgctgt tacctagtct 180
 caaattatgt cccctccatt tctcgagata tgtgtggcag atttgcatga tacgtttgtt 240
 tgtttccatc ggacctgaag tcttcttggg gataggetcc cccctttgta tgttgtggct 300
 ccaatccatg tgcgagcacg ctgtgtctgt cgtgacacct ggttcgtgag atgggttgct 360
 aaacttgatt ggtaggtgt gcgtggctgg aagagctgat agttatata 409

<210> 32152
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D1

<400> 32152

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 tctctactct gaagtctgaa ctcaatctca cacggatgat acacgaacta gggagatgtc 180
 tttgttttcc tagggcgcc acggattagc ctgttcgcag ctgaattttt tcttgttttt 240
 ttttttctgt tttcgctatc tgtattgtag tctactgtgca aaaaaaatcg ttttgattga 300
 ttggctgc 308

<210> 32153
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-049-Q1-K1-D10

 <400> 32153

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 ccaccatggc tagaggattg aagaagcatt tgaagaggct caatgcgccc aagcattgga 120
 tgctggacaa gcttggcgga gcttttgctc ccaagccatc ttctggacct cacaagtcta 180
 gggagtgcct gccactgatc ctcatcatca ggaacaggct caagtatgct cttacatacc 240
 gtgaggatcat ttccatcctg atgcaacgcc atgtacttgt tgatggcaag gtcaggacag 300
 acaagaccta ccctgctggg ttcattggatg tcatttccat cccaagacc aatgagaact 360
 acaggctgct gtacgatacc aaggggcggc tncgncttca cccaatcagg gatgaggatg 420
 ctaagttcaa gctttgcagg gttaggtctg 450

<210> 32154
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B12

 <400> 32154

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 ttgggggtcgg tcagaggacc ttgcctatga tcactctcta gtcactatc atactcttca 120
 ccctgaaacg gctgatgcaa agattccagc tgctgcccac gcggagctgg acaagatacc 180
 acaccactga taagctcagg cagctaagca accacatcat cgaacatacc accatcgtct 240
 gcaagcccct ctatgcctag acctcaatgc gtcgaatcct gcacgcgccc tcagcata 298

<210> 32155
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-D3

<400> 32155

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tgccggcgcc ggcgcgcagc agggcgtgtg gagcatcacc acccggccca tgttccagag 120

catgctgagc caccgcggcg acagcgggtg ccagggcgcc ttctacacct acgacgcctt 180

catcgaggcc gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag 240

gcgggagctc gccgccttct tcggccagac gtcccacgaa accaccggtg gatgggcgac 300

tgctccgat ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga 360

cccaccctac tatggacgag gaccatata gctaactcat aagtacaact acaggctcgc 420

cgggcaagcg ctgaacctga acctggtggg cgaccgggac ctggt 465

<210> 32156

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H6

<400> 32156

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tgtctttctt tttttgcttt tgtttccgtc tcttctctcaa tagtgtcacg cagtccgcag 120

agctcgtgga caccacaaaa gccacacgtt tcgtcagag ataaacaaca gacaggcaaa 180

agattacata cattactgcg cgtacgctgt gcacatatcg atcgtatttc tccaaatact 240

gaagctgctg ccgctcgtgg ggacctcaca gcacgtcctt ggggacgaag ctgctgccgc 300

cagcgatggt ggtggtggtc tcgtcggcca gcccaagccc accgttggtg gtgaagcagt 360

actccggggc ctgccacgcc gcgttctcca gcaccgctcc caccttaaag ctcataacgt 420

aggctgtcct acctgtgtag aagaccact tgacgggtcg cttg 464

<210> 32157

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H7

<400> 32157

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 acgtttcaaa ctttaaggat gactcaagtc caattgcttg ggattgttct gcttgggtgc 120
 gcacatatgg attgtttttg gaagaaaggt tggagtgcct catagttctg aagtatgatg 180
 ttgaagctga gcgtttgtcc aaacaaggtc aaggctcctga aaagggtcac agtagaacca 240
 gagagtggga ttcacaggat ctgttagagc agctgccagc attgcagcag ttactatacc 300
 gactcgttgg atgtcggcct gaaggagctg caaataataa ctacctgggt caatacgctt 360
 tagctttggg gctaatagaa agctttaaaa tttattgtgc tataaatgat ggaattatca 420
 accttggtga taagtttttt gagatgccaa gacatgaagc acataaagct cttgaaatat 480
 a 481

<210> 32158
 <211> 494
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-H8
 <400> 32158

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 tgatgagggg tttcaagcgg ttgatgcagg accctgcggc cggcataagt ggcgccccgc 180
 aggataacaa cataatgctg tggaaatgctg tcatatttgg acctgatgat acccctggtg 240
 atggagggtac gtttaagctg actctccagt ttaatgaaga atatccaaac aaaccaccaa 300
 ctgtgcgatt tgtttctagg atgttccatc ctaacattta tgctgatgga agcatatgct 360
 tagatatact gcagaatcag tggagtccga tatatgatgt agctgcgata ctcacgtcaa 420
 tccagtcatt gttgtgcgat ccaaaccgga attcgccgcg taactctgaa gcccgccgca 480
 tgttcagcga gaac 494

<210> 32159
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-H9

<400> 32159

ctcactctac gctggteget cactcttgca gctccaccct tcaactcagtc ttggtctcgg 60

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcggc 180

cgtggtggag accccgcgcg cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240

ggccgaggcc gaggtgctg ctctgctga tcccgaggag ctccccgcg ccgagcagca 300

ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagcccg tcgcggccga 360

accggccgc 369

<210> 32160

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-049-Q1-K1-A10

<400> 32160

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gtgccggagt cggggaaggt caccgcgggc gcgagccgat ggacagcaac aacctcctgg 120

cggcgtggcc ggtcctgggg ccgggcgtcg ccggcgccgt attcggcgca ggctggtggt 180

tttgggtcga cgccgtcgtc tgcagcgccg ccgccgtgcc attcctccac tacctcccag 240

ggttcttcgc ctcgttcgcc gcgctcatgt tcaactgcgt caaccgggag gacatcggcg 300

atggctacta ctaccgtac gacgactccg agtggaaggt gaagctctgg ctntttatnt 360

cgtacgtggt gtcgtttggt tcgctggccg gngcagtggg tttcttggtt caagatgcgc 420

ttacg 425

<210> 32161

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A11

<400> 32161

cccacgcgtc cgaaaaaaaa atatgtatat ataaaaaaaa aaaatataaa taaaattaag 60
aggaaaaaaaa aaaaaaaaaa gtaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaggggtg 120
ctggttttat aggtttcta tttactcacc cttgtttgca accgtataca tctcatattg 180
gtggatttaa atcgaattca ttggctgaag ttttaaaacc ttgaaattgg taaaatatgt 240
tcgatagtta ttttaattgt tttgcatgct aatgtttttt tgc 283

<210> 32162
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-A12

<400> 32162

cccacgcgtc cgtttgatat tgggctgaag attggcaacc ttgaagatac tcggaatcgt 60
actctgcatg gtattttaag ggttcaaagc tgtttcaggg ggcatacaagc ccgtcatcat 120
gcaagagaac gaacaagagg agttttgact cttcaatcat tcattcgtgg tgagaatgca 180
cggcaaattt actcctcttt gttgaggaaa catagagccg cagttgtttt gcagagaaat 240
gtgagatggt ggcttgcaag aaggtatttc ataaatgtcc ggaaggcctc agtgataata 300
cagtctggta ttcgtggcag tcttgttcga agatgtaatg gcaatattga tctaataaat 360
gtgctaagag agtttgaatc anaacaggta caataactgt gtgtgcgcgc gcgcccccta 420
tacggtgctg ctggcagcta tattcat 447

<210> 32163
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A2

<400> 32163

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cagctgggtgc tgatcctgtg cctccaggcc gctctgggtca tgggcgtctt cgccgctttg 120
gctaaagaaa atgccctggt tgagagcaag gccatcgaca tcaaccggg gcagctcaag 180
tgctgcacca actgcaactt ctccttctcg gggctctaca cctgcgacga cgtcaaaaag 240

gactgogacc ccgtctgcaa gaagtgcgtc gtcgccgtgc acgcctacta cttgggcaac 300
aacaagttca ggtgcaccga caccttctc ggtatgtgct gcccgaagtg ct 352

<210> 32164
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A3

<400> 32164

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tgttgcgaaa caacgaccac ctccgtctac accttaaagg tttgcgcgac atggcttttc 120
atagtgtcga attggatcta tcccctgagc ataggagaaa agtatcaatc tgtacagtgg 180
atccaagtat tctataaagc atgtatctc caatttccca caagcgagaa tggcatgata 240
tgatggatga aatggctgtt gcgggtcaatt gtctttcaag gatcaattgt ctttcaagaa 300
ccacacttat gtattggttt gtgtgcagtt caagctctgc aagggtgaggt ctgttcagtt 360
tgccagaaa gtcacccct acctgaacac ctacgacgac cgtaccatcc gctaccccgga 420
ccctctcatc aaggccaacg acaccatcaa gatcgatctg gagac 465

<210> 32165
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A4

<400> 32165

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gctggaaatc tatctgattt ctacgagaat tgccgggggt tagaacttgc gaggaatttt 120
cagtttccca ctctgagggg gccgccacaa acatttcttg caactatgga ggagtatgtg 180
aaggaggctc cacgcatggt ccagttcga gaacccttg aacttcctga gaggttctt 240
cttacatata aacctgaaga atcggaggac attcgtgagc ctgcttctgt tgaagaggaa 300
aatgcaccag ttgaagagcc tgttctggta ccacctgtta ctgaagttgg ttcaccttcc 360
aagtccgagg tggccgatac tgggtgactta ctgggcttag atgat 405

<210> 32166
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-049-Q1-K1-A5

<400> 32166

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agctgcgggg gccaccaag gtcagcgtct tcctcgccag caacgacgcc gagcaggcct 120
gcgacttcag gatcaccggc agtaccacg acggcgccctg cgctgtctcc ctcggcgact 180
ccgacaccgt catcgccaag atcgaccggc ggttcagcgt ggtcagcgcg ctgctgggga 240
agaactcgta cagcgtcacc gtcaaccggg ggatcgacta cgccttcgtc gtcgcgctcg 300
tcgtcatcct cgacgagatg cattaccagc gatgacacgc acgcttcagt tttgggtcca 360
agccgngcgc cttcccttct gctgatgcgt ggaatcaacg c 401

<210> 32167
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A8

<400> 32167

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tgggcagccg ccacccacc tccccatca aaccatagcc gcccctcct caagcccttc 120
tctccaaggt gccattcctt tcccgctcgg atctacgtcg cgttggtgca tgtctccaat 180
tggattttgg tggagggaag aagaaggag gaaaggggga ggattcaagg tgattttgag 240
attgtacctt gttaattgt gttgtaatcc aattgattat atgtttacct atccgaatcg 300
gtagagggtc tgcctgaaa ttttgtgggt gggcgaacag cagtagttct agggatttct 360
gggaattttt cgtgggtaat tagtggggat cagtgggtga atcatgtaga gctttgtcat 420
acctttccaa cgggtactta tgcgctcgat tcggagttat 460

<210> 32168

<211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B10

 <400> 32168

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 tttgggggtcg gccagccgga gctggcctag gatcatcctc gcgctgccta tcatcggcac 120
 caccctgggc cggctgatgc aaaacttcca gctgctgccg acggcggatc tggacaagat 180
 cgacaccact gataagccca ggcagttcag caaccacatc gccaaacatg ccaccatcgt 240
 ctgcaagccc ctctaggcct agaaatcaat gcgtgtttcc tgcacgcgcc ctcgcatatt 300
 aaccactatg tattttctct ttaacatgta tgatgggtac ttatctacta agatgagatg 360
 gatattctga tcgtaaaatg cac 383

<210> 32169
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-049-Q1-K1-B11

 <400> 32169

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 tttgggggtcg gccgccggag ctgccctggg atcatcctcg cgctgcctat catcggcac 120
 accctggggcc ggctggtgca gaacttccag ctgctgccgc cgccgggggt ggacaagatc 180
 gacaccacgg agaagcccgg ccagttcagc aaccagatcg ccaagcatgc caccatcgtc 240
 tgcaagcccc tcgaggccta gaaatcaatg cgtgtttcct gcacgcgccc ccgcagatga 300
 agcactatgt attttctctt tttttgtgt gttgtgtttt ttttactaag aggagatgta 360
 tttcttggtc gtaaaatgca cttagtcaaa tggatcgaga ttatgttgat catt 414

<210> 32170
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-H2

<400> 32170

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agcttggttc tatgtttctt gtcaaccaga gaaactcaaa aagctgcgca atgaggtggg 180

cattaattgg tggttgcacc aatacttcaa gtcagttggt ttcaatgtat gaggacaggt 240

tcgagttata tgttctatgc agcaaaaaat acgaaaaaac agccgacaat caagctgaga 300

gggcaaattg gtggaggatt gcatctgggc agcctaattg cttactctt gattatgtta 360

acatcagtc attttccctt cagcaagaag gacaaaggaa t 401

<210> 32171

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E8

<400> 32171

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ggcgaacgcc acggccgccg ccgtgctgca gtccccgctg ggccccaact cgtcgttcgg 120

gagcatgggc gtggtggacg acgagatacg cgtggggccc gaccggtcgt cgcagctcgt 180

cggccggtac cagggcgctt tcttcggcac gagcgtgcag ctgggcgccc gctacctgtc 240

gtccatcacg ctggtgttca ccgccggcga gtacaacggg agcacctgt ccgtgcaggg 300

gcccctgctc gggttcacgg gcaccatcga gcgcgccgtg gtcggcggca ccggcaagtt 360

caggctggcg cgcgggtaca tgcttttcaa gatgataagc aagccgacgc cggagacgga 420

cgtcaacgag atcaacctgt tcgtgctcat gcactccgct ggcaagtact agcgcacaca 480

ccttg 485

<210> 32172

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E9

<400> 32172

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 tcgcgctagc gggggccaac tccgagggcg acgcgtcttc ggcgctgcgc cgcagcctca 180
 gggaccccg ggcgctgctg cagagctggg accccacgct cgtcaacccc tgcacctggt 240
 tccacgtcac ctgcgaccgc gacaaccgcg tcacccgcct agatcttggg aatttgaact 300
 tatctgggtc tctggtgcct gagcttggga aattggagca tctgcagtac ctggaacttt 360
 acaagaacag cattcaagga acaatccctt ctgagcttgg taattggaga atct 414

<210> 32173
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-F10

<400> 32173
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 ttgtgnnaat cgcaac 76

<210> 32174
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-F11

<400> 32174
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 aaagaatttt actgtgtaca agctagtgtc aagtgttgtg catctttgac tgtagtgtcg 120
 ctcaattctg aacatctatt aagccacttt tggtgctatg ctaataccag tctgagagac 180
 actgatgttt ttaacag 197

<210> 32175
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-F3

<400> 32175

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aaggaaaagg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaac aaaaattttt 120

ataacacaaa aaaaaaaaaa caaaaaaaaaa agggcgcccc ccctaaaaaa cccaacctaa 180

ccaacccaaa catccaacca caaacacccc caatagggcc cccaaaatca aatccaaggc 240

ccgccagatt aaaaacgcct aaacgggaaa aaccggggag aaccccaact aaaacgcagg 300

ccaaaacaac cccctatccc caacgggggt aaaacaaaaa agc 343

<210> 32176

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F5

<400> 32176

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ggcacgcgtc cgcccacgcg tccggttcta gatcgcca 98

<210> 32177

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F9

<400> 32177

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ggctatgaga agcgccctga gatcacattc tctgaggcac ctgtctttgt ggaccctcat 120

gggcgtggtt tgcgtgccct ctccagggcc cagattgact ctgttctgga tcttgcacgg 180

tgcacaattg tgtccgagct cttcaacaag gatttcgact catatgtcct ttctgagtca 240

agcttggtta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 300

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aagtactccc gtgggacgtt catctttcct tgcgcaca 398

<210> 32178
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-G1

<400> 32178

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aattcaggaa taggactatg cttgacataa tttacgttag agatactcat ccattgatca 120
ctcagattat cttcctgtat cagaactatt accatctatc aagaacagac ccttatgtta 180
ttcccattga gcctgctgct agtgggtggaa tgaatggatt cctatgttta tctgaaagga 240
actggatatag tgtcactgtc acttctccag ttaaggggtt caatggcatt gctcagaaca 300
gagttttgaa tgctgcctat ctcaatcctc agtatcacia acacatccca gagcctncag 360
cggnggtcat catacctgcg aagatactga agcctagtga tttcaaacc tttcctgtgt 420
tgtggcatca agataatagt cgtcgacaag taagagaaaag gcctcagggt tctg 474

<210> 32179
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G11

<400> 32179

ggccgtccgg agctgcctgc cagtagcagc aacagcaaaa catgaagcag ccgtaagcgg 60
cagagagcat ggcgagatca gggcggaag cggatcccgg agaggaggaa cggaagctgg 120
tgctgggcaa gtacgagctg ggccgactgc tggggcaggg caccttcgcc aaggtttact 180
acgcgagggga cctgagcgcc ggcgccggca cgggtccacag ctgcagcgta gccatcaagg 240
tgatcgacaa ggcgcggctg cggcgtacgg aggggatggt ggagcagctg cgccgggaga 300
tctccatcat gcggatggtg ctgcacccca acgtggtggg catccgggat gtgctcgaca 360
gccggttccg cgtctttcaa gtcattggagt a 391

<210> 32180
<211> 331
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G12

<400> 32180

cgtccacccg atcccctgac ccgtcgcctt gaccggtacg cgttctagat ctacaagcgg 60

gaccggctcc atctatcaca aactcacgct acacgtacgc tgcgaatgcg atagctatat 120

ctatagcgat acgtacatc tcaaattact ggcaactgcg cgtacaacta caacgactgt 180

gacaaccata accctaccga tatcaatctt aatggactag atgcacattt cgccatctgc 240

cgctatcgca ataacgcca caccataat cattgccaac agtaacacat tctcaatcgc 300

gaatgggact cgcactctcg ctgtacatta a 331

<210> 32181

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G3

<400> 32181

gcgaagcgaa tccagatgca actccgaggg atgctcgaaa cgcttctgac gtgcaaatcg 60

tgctctgac 70

<210> 32182

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G4

<400> 32182

cccatctggc cgctttgtca ttggtggacc tcacggcgat gctggcctca ctggccgcaa 60

gatcatcatt gacacctacg gtggctgggg agcccatggg ggtggcgctt tctccggcaa 120

ggaccaacc aaggttgacc gcagcggagc ctatgtcgca aggcaggctg ccaagagcat 180

cgtcgccagc ggccttgctc gccgcgcat cgtccaggtg tcttacgcca tcggcgtgcc 240

cgagcctctc tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat 300

cctcaagatt gtcaaggaga acttcgattt caggcctggc atcatcatca accttgacct 360

caagaaaggc ggcaacgggc gctaccttaa gacggcggcc tacggccact ttggaaggga 420
cgaccctgac t 431

<210> 32183
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G7

<400> 32183

cccacgcgtc cggcctcatt catctccatt cgaaacaccc tcgcacccac actctgcctt 60
cgtccccagc ctaaatcccc gcaacgatgg ctgcgacgaa gcagacggcg cgcaagtcca 120
cgggcggcaa ggccccgagg aagcagctgg cgaccaaggc ggcgcgcaag tcggccccctg 180
cgaccggcgg cgtgaagaag ccgcaccgct tccgccccgg caccgtggcg ctgcgcgaga 240
tccgcaagta ccagaagagc acggagcttc tcatccgcaa gctgcccttc cagcgcctgg 300
tccgcgagat cgcgaggac ttcaagaccg acctccgctt ccagtcctcc gacgtcgccg 360
cgctgcatga ggccgccgag gcctacctcg tcggcctgtt ctaggacacc aacctttgcg 420
ccatccacgc caagcgcgtc accatcatgc ccaaggacat ccagctcggc cggcgcaccc 480
gcgggggagcg cg 492

<210> 32184
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G8

<400> 32184

ccaagaacgg aatgggcgtc cttctgaagt aggtccttct gcaaaaagca gtagtaaattc 60
ggcctcacat tctgatggac ctgcttccgg ttctcttgct gagtccaatg aaataaatca 120
aggtcttact cgcggtagca gtctgacagg agcaactggg aatgggtgtgc ttggagaagc 180
tatcttagat cagtctgatg agcatgtag cagtgccttg aatcacagga aagggaacct 240
tgtattggaa catgatggta gaaatgggtc ggtagcgtct tataggggag ttctttcaga 300
agaggaccgt gattcttatc ccggccatgc tcggaaggac tctgctgaaa gtattgggag 360

tgatttgagt tctttaagag gaagtgaatt atctgttcca ggggctagta attccctttg 420
 ggatgggtgct gtgggtggatg gacatgttag tcaaacagaa catcttactg gtttagatat 480
 gccatctt 488

<210> 32185
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-G9

<400> 32185

tcccgcgtcc gggcggatcc gatccgtgcg cctgctgtgt gtgtgtcggg ggagatgggc 60
 acagcttacg ctcccatggc gagccagggtg atgaagagca gcctcgtcgt gcactcgagg 120
 ccgagtggcc tgtcaggcgc tgcgtgcgtc acgatgcggc ccctgttcac cgtcaaggcc 180
 atccagcccg agaaggctac gtaccagggtg gtgcagtcta tcaactgcta ccccttcac 240
 ggcagcctgg agactcctgt cacctcgagc ccgctcgtgg cgtgg 285

<210> 32186
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-H1

<400> 32186

gtcgaagcga ggtaggggag gttcggctgg gaacaagttc cgcattgtcac tgggtctacc 60
 ggtggcggcc acggtgaact gcgcggacaa cacgggcgcc aagaacctct acatcatctc 120
 cgtcaagggc atcaagggcc gcctcaaccg cctcccgtcc gcctgtgtcg gcgacatggg 180
 catggccacc gtaaagaagg gaaagcccg cctcaggaag aaagtgatgc ccgccgtcat 240
 cgtccgccag cgcaagccgt ggcgtcgcaa ggacggtgtc tacatgtact tcgaagataa 300
 tgctggagtg attgtgaatc ccaagggtga gatgaaagg tctgcaatca ctggacctat 360
 cggcaaggag tgtgtgacc tttggcctag gatcgccagt gcagcanatg ccatcgtttg 420
 agagcttggt ggaatgtgtt agacttgagt atgatcatc 459

<210> 32187
 <211> 489
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E6

<400> 32187

caggaacctg ctaatgggaa gcccaatccg tccgtaccag atgggtgtcac ggcagaggtg 60
 aaggcggtga aggctcccgc agagaacggc atcactgctc ctgttgtttc ctatgcagca 120
 aagggtggccc agacagcacc agagaaaccc gtcctctcca acggagtcgc caagaccggt 180
 taactcgacc gtgcaaccag agctccatag ccagggtggg gtgggtgtcc tgaagactca 240
 gatgcggtgc aagggaactg gtgaccaacc aaggcaggct gtggaactgg cagcatggcc 300
 ccataagcgt tgctcgatct cctcatcgct actggatgga gagcagttgg ctagttgtta 360
 gcggtttccc tagtttctct tctcttctgt tccccgggt cagtttgctt atagccccga 420
 agactctttt ctcccgtagt gtcggaatgc cagggtctgt ccctgtgggt gtgttgcgta 480
 actgggatc 489

<210> 32188
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-H10

<400> 32188

ggagtgtgca cgaagtactt gcttcagagt ggtcttcaag aatacctcaa cgggcaagga 60
 ttccatateg ttggctatgg ctgtaccact tgcattggaa actctggtga tctcgatgaa 120
 tccgtatcaa ctgccattac agaaaatgat gttgttgctg ctgctgtttt gtcgggtaac 180
 cgtaacttcg agggtcgtgt gcacccttta actcgggcta actatcttgc ctcaacacct 240
 cttggtgttg cttatgcact tgctggaaca tgtgatattg attttgagaa agagcccatt 300
 ggatttggaa aggatggcaa tgaagtctta cttcagggat atatggccct tgacagaaga 360
 aattgcgcag gttgtccaat ccagtgtgct gtctgacatg ttc 403

<210> 32189
 <211> 475

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C6

 <400> 32189

 atccaaccca tcttcgtccg ctccggccac tcgtttcgcc gccgtcggtc gccacccgca 60
 gggtttgag gataagattc gggagggatg gcttcgggtg ggcagccgca gttccgggtcc 120
 acgcagccgc cgtcgaaggt gctccacctg cggaatctgc cgtgggactg cactccaaag 180
 gagctgggtcg agctggggac ccccttcggc aaggctcgta acaccaagtg cggcgtcggc 240
 gccaacccgca atcaggctta tatcaaattc ggagcccaaa ataaagctat tgccatgata 300
 tcatattatg catcgtcaac agagccagca caggtaagag ggaaaaatgt gcaccttcag 360
 tactcaaata cacaggatat ggcaacaaca aggcaactgg agaaggttca ggcaacgttt 420
 ttcttgtggg aatggatggt gttgcaccaa attctgtcag cattgatgtt ctaca 475

<210> 32190
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C7

 <400> 32190

 gccagggccg tttccgagga cagctcggac tccggcggcg actagctcat cgaagacctc 60
 agggcaaagt gggacgccgt tgaggacaag cccaccgtcc tcctgtacgg cggcgggtcc 120
 atcctggcgc tatggttgac gttcgatgtt gtcagcgcca tcaacgcctt gcctctgctc 180
 cccaagatcc tggagctcgt tggcctcggc tacaccggct ggatcgtgta ccgctacctc 240
 ctcttcaagg aaagcacgat agagctggtc gacgacattg agaccctcaa gaaaaagatt 300
 gctggaactg cagaataagc gctagctctc gtggaaagct ttagaaccaa cgactagagg 360
 ggccg 365

<210> 32191
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-048-Q1-K1-C8

<400> 32191

gaaaaaaaaa acacacacac acacacaaag cgcacttttc aaatcgacaa aggggaaagg 60
ttcgcttctt gtggcatctt gctttccttc gagtgccatg gccgatccgg cggaggagaa 120
cgttgtctcg ccgccaccga cccctgcggc cccagccgtg ggcgccctcag acccgcccct 180
gcagcctgct gctgacagcg cctcaacgga gaagggtgtct gctccggcgc cggaggtaag 240
gtccccggga ttccaggcttc ttggagagga cacttccgtg cacaaatccc ttgggggcgg 300
taaaactgct gacgttctgt tatggaaaga caagaaaact tctgctgttg taataggcgg 360
cgcaactgtc atctgggttc tgttcgaagt gcttgattac cacctnctga cctgatatc 420
ccatgtactg attggtgtgc ttgccacctt attcctgtgg tccaaagcaa ccacg 475

<210> 32192

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D10

<400> 32192

cgcggtgacg ctgctcatcc acaacccggg cgtggaggag gacccggcct gcggcccgt 60
catcgacggc gtcgccatcc gtgcgctgta cccgcccgcg ctcgccaggc gggcgggggg 120
aaacctgtc aagaacggcg ggttcgagga gggcccctac ttctgcccg gcgcgtcctg 180
gggctgtc gtcccgccca acatcgagga cgaccactcg ccgctccccg cctggatgat 240
cgtctcgtcc aaggccgtca agtacgtgga ctccgcgcac ttccgctgc cccaaggcgc 300
gcgcgccgtc gagctggtgg gcggccggga gagcgcgctc gtgcaagaag gtgcgcaccg 360
tgcccgggtg 369

<210> 32193

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D11

<400> 32193

gacccacgcg tccgcggacg cgtgggcagc tgtcgatcca attgtcactt gcgctccctc 60
caacaagcta attaaggccg gtccatccct cttctagctc gtttcattat ccatggctga 120
tgagaagcac caccaccacc acctgttcca ccacacgaag gacgaggagc aggccgcggc 180
cggcgggtac cgcgagtccg acgagtacac ggaggccact gtgacagagg tcgcgccac 240
gggcgagaac gagtacgacg agtacaagaa ggatgagaag cagcacaagc acaagcagca 300
cctcggcgag gccggcgcca tcgacggcgg cgccttcgca ctctacgaga agcactacgc 360
gaaaaacgac ccggagcac 379

<210> 32194

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D2

<400> 32194

cgtcttcgcg ccggcccgcg cggaccgccc gctccccgtg gtggtgtact tccacggcgg 60
cggtcttcgcg ctctttctcc cggccatcgg gcccttcaac ggcggtgtgc gccgcctctg 120
cgccgcgctc ggcgccgctc tgggtgtccgt caactaccgc ctggcccccg agcaccgctg 180
gccccgcgcc tacgacgacg gcgtcgacgc gctgcgcttc ctcgacgccc gcggcggcgt 240
cccgggcctg gacgacggcg tgcccgtcga cctcggcacc tgcttcctgg ccggggagag 300
cgcgggcgga aacatcgtgc accacgtcgc caaccgctgg gcggcggcgt ggagccgtc 360
cgcgcgggcc cttcgcgtcg cgggcgtctt ccccgctgcag ccctacttcg gcggcgtgga 420
gcgcacgccg tcggagctgg agctagaggg cgt 453

<210> 32195

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D3

<400> 32195

cccacgcgtc cgcccacgcg tccggtgcta gtggtgacta cccagactgc actgaccaag 60
cttatgaaaa ggcagttgcc gatggtgcgg atgtcattga ctgtcctgtt caagtgacta 120

aagatggcat actgatatgc atgaactctg ttgacctaat ggatgttact actggtgcaa 180
aatcacaatt tgcttcgcaa gtgactacca tcaacagtct gaaggctggg tctggagtct 240
ttaccttcaa ccttacttgg gatgatatt 269

<210> 32196
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-D6

<400> 32196

aaaaaggact gcgaccccggt ctgcaagaag tgcgtcgctg ccgtgcacgc ctccactctg 60
ggcaacaaca agttcaggtg caccgacacc ttctcggca tgtgcggccc caagtgctag 120
atcagagagg aagaacgcgc gctgctgcta gctgctatag cttegttctt ccgccgncgg 180
ccggtgcatg gttcacgtac tgtgtgttgt gctactacga tacgtactgg cttcttgtgt 240
gttgggttct tggtcttctc tcgacagtgc accttgcgcg ccaacaataa accgtgggtg 300
gccatgaata aatagtacta tgaagttatt ggc 333

<210> 32197
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E10

<400> 32197

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ctgcggcggc tggagagcct cgccaagcac ccccgcgctc agatcctcct cgccaacgaa 120
atccgcaacg ttgaagcgaa gttggcgaag gcaaccgaac catcgctga gccactggcg 180
gcggcttctg cgccagcgcc cgcgcccgtc gcggtcctg ttttaagcta cgtcactctt 240
gggtcgttca gctgggagca ggacaacgag aagattagga tatatgtttc ccttgaggga 300
gttgagcaag agaaggtgga gactactttc aagccaacat cagtggatat aaagtttcat 360
gatgtcaaag gcaagaatta ccggtgtgct ataccaaagc tgaac 405

<210> 32198
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-E11

<400> 32198

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atcttcaagg tcctgaagca ggtgcacccc gacatcggca tctcctccaa ggccatgtcc 120
atcatgaact ccttcatcaa cgacatcttc gagaagctcg ccggcgaggc cgctaagctc 180
gcccggtaca acaagaagcc caccatcacc tcccgcgaga tccagacctc cgtgcgcctc 240
gtcctcccag gagagctcgc caaacacgcc gtctccgagg gaaccaaggc cgtcaccaag 300
ttcaccagca attgagcagc ctncagcgtc cacggatttg ttaggtctcc ccttcttaca 360
agggttcttc gtcgtgtcct ctacccttnc cctccccgcc tatgtatgtg ctgtgaaatc 420
gttgatgttc tc 432

<210> 32199
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E12

<400> 32199

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ccatcggtcg tcgtgaaccg aacagaatgc cgtcgctgac ttgctgcggt gtcgtcaagc 120
accccgatgat ctgcatgccg agtacgtact acggtgtgca gactgcactg cacagggatc 180
ggagag 186

<210> 32200
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-E3

<400> 32200

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 cgcacgcctc aggtttgggt agtagacagc atcgacgacg aggaacagaa gatggcaccg 120
 aaaggagccg tattcgtctc aatctcacag ttccccatca agaaaatccg caaggattgc 180
 acctacctga gcactccagc aatgaagatc cctgaaacca tgcaaaatat ccatgcctgc 240
 gagaactggc tgccaagacg ggtgatgagc gcctggcgca tcggcgggat acttcacgcc 300
 ctggaagggt ggaccgtgca cgagtgtggg gacgccatgg tgcattgctga gaaagcatgg 360
 tcagctgcta ttaggcacgg attcgttcct ttgacgaaag cctgaaagcc tgtacgcaac 420
 tctagacgcc attcgacgat ggctggaaaa ctacgtttca gcaatcggtg gcacaaa 477

<210> 32201
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-E4
 <400> 32201

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 agcagcagca gcagcgatgg cgctctgaa gctgtacggg atgccgctgt cccccaacgt 120
 ggtgcgcgtg gccaccgtgc tcaacgagaa gggcctcgac ttcgagatcg tccccgtcga 180
 cctcaccacc ggcgcccaca agcagcccga ctctctcacc ctcaaccctt tcggccagat 240
 cccggctctc gtcgacggag acgaagtcct ctctcagctc cgtgcgatca accggtacat 300
 cgccagcaag tacgcgtcgg agggcacgga cctgctcccc gcgacggcgt cngcggcgaa 360
 gctggagggtg tggctagagg tggagttcca ccacttctac ccgaacgcgt cgccgctggt 420
 gttccagctg ctctgtaggc cgctcctggg cggcgcccac gacgcggctg tgggtggacaa 480
 gcacg 485

<210> 32202
 <211> 492
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-048-Q1-K1-E5
 <400> 32202

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caccagacgc gtgaggtttg gctagtagac agcatcgacg acgaggaaca gaagatggca 120
ccgaaaggag ccgtattcgt ctcaatctca cagttcccca tcaagaaaat ccgcaaggat 180
tgcacctacc tgagcactcc agcaatgaag atccctgaaa ccatgcaaaa tatccatgcc 240
tgcgagaact ggctgccaag acgggtgatg agcgctggc gcatcggcgg gatacttcac 300
gccctggaag ggtggaccgt gcacgagtgt ggggacgcca tgggtgcatgc tgagaaagca 360
tggtcagctg ctattaggca ctgattcgtt cctttgacga aagcctgaaa gcctgtacgc 420
aactctagac gccattcgac gatggctgga aaactacgtt tcagcaatcg gtagcacaaa 480
ttcttcccag ct 492

<210> 32203
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-048-Q1-K1-C2

<400> 32203

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agccatggcg cgggtgcctng cgctcgtctc cctccttctc ctcggcctcg cctccgccgc 120
ctccgttgcc gatgcgccct tggtcgtcgc gcacaaaagg gtttcgctct cccgccccaa 180
gccgggcgta gagcgcgtcg ccgtctccct ggacctatac aaccagggat ccgagactgc 240
ctatgatgtg tcaacttaacg acgactctgg cccaacacaa gcttgagatc ttgccactgg 300
agagaactcg acgacattga aaaggcttga ccctggtgcc actggtacac acacatatgt 360
cctggagacc aaaacacagg gcagtgtcca gggttcacca tctattatta cgtaccgtgt 420
tcccacaaag actgctcttc aggaggccta cttaactgcc atcttcccac tggatattct 480
cgctgag 487

<210> 32204
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H12

<400> 32204

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ccggtccatc cctcttctag ctcgtttcat tatccatggc tgaggagaag caccaccacc 120
accacctgtt ccaccacaag aaggacgagg agcaggccgc ggccggcgagg tacggcgagt 180
ccgccgagta cacggaggcc acggtgacgg aggtcgtgtc cacgggagag aacgagtacg 240
acgagtacaa gaaggaggag aagcagcaca agcacaagca gcacctcggc gaggccggcg 300
ccatcgccgc cggcgccctt gcactctacg agaagcacga ggccaagaag gacccggagc 360
acgcgcaccg tcacaagatc gaggaggagg tcgcggcggc ggccggcgtc ggctccggcg 420
gcttcgcctt ccacgagcac cacgagaaga ag 452

<210> 32205

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H2

<400> 32205

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tctccagggtg ccaggtctt cgccggtccc tttgccgccc acgagcacca gccaggaaga 120
aaagaagctg aaccatgggg aagagaaagt cagctgctaa gccacctcct aagaagcgga 180
tggaacaagct tgacactgtc ttttctgcc cattctgcaa ccacgggagt agtggtgagt 240
gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt caggaaaact 300
tcagcacaac tggttaatgca ctactgagc ctattgatat atatagtga tggattgatg 360
agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc cccatgcgat 420
gaaac 425

<210> 32206

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H7

<400> 32206

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ggtgtgtcga aaaacatgtc tgtgattttg ttatatgaat gtaacgcgca atgaaacata 120

caggactagc tgcttgcttg acgatgcgtt tgcgtgtatc cgtataaatt aaaggctata 180

agccacaata aaaaggatta tgacttaaaa gcgttcaaga aataaaaaaca cacaaaagaa 240

aatataagcc aatggcattt aaaaccaagc gcgatgacca atttgtgtga atcaacggaa 300

tcctctcgaa ctaggttgaa attactataa aggggcggcc attttaaagg gtcaaaactta 360

actgtcttac gacggactat atta 384

<210> 32207

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H9

<400> 32207

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catgaatatg cccaagagat tagagagacg gccaacctga gtatcttgct ctgttgcggg 120

gttttgctg cttatgaagc tgtgtatggt gattctgttg ttgtatgttt atgagtaggc 180

tctgactagc gaggatattc tgagtgtaga acgtcgaatc tagatttttt gagggctctga 240

tgttgtttgc cattgtcggc cggcattttt gtattgctta ttgcgaggat tttcgtttct 300

tgacgcctgt ttctaggac atcatgattg gacatttgga atgcaaaca tttctttgtg 360

gtgttgggtt 370

<210> 32208

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A1

<400> 32208

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gagatgtttg atctgcacaa tgttgtcata tctatacctc tgctgcagt tcgggaggct 120

ccaagtgtca aacagattga tggaaagtgg aagtt 155

<210> 32209
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A11

<400> 32209

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tgtgatcaaa gtagtcccag gtggaaaagt tgcttctgat ggattcgtta tttggggcca 120
gagccatgtg aatgaaagca tgattactgg agaatacagg ccagtagcga agaggaaggg 180
cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240
tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagttcg cacaaatggc 300
aaaagctcct gtccagaagt tcgctgatca gatattctaga gtctttgtcc cactgggtat 360
cgttctctct ttgcttactt ggcttgtgtg gttcttagct gtgagattcc atggttacct 420
atacttatg 429

<210> 32210
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A4

<400> 32210

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<210> 32211
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A6

<400> 32211

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aagccttcgt tgagcaaagt gaaa 144

<210> 32212
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-A7

<400> 32212

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aggaaaaaat tataaaaaaa aaaa 84

<210> 32213
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B10

<400> 32213

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gagccatgtg aatgaaagca tgattactgg agaatacagg ccagtagcga agaggaaggg 180
cgatactgta attggaggaa cagtgaatga gaatggtgtg ctgcatgtcc gggcaacatt 240
tgtcggatca gagactgcac tggcacagat cgtaagacta gttgagtccg cacaaatggc 300
aaaagctcct gtccagaagt tcgctgatca gatattctaga gtctttgtcc cactgggttat 360
cgatctctct ttgcttactt ggctagtgtg gttcttagct gggagattcc atgggtt 416

<210> 32214
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B11

<400> 32214

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taaagaaaaa aaaaaatgct aaagctagtc tttaaagata atcaagaaca aactgagaac 120
 tgagacacaa acaaggggtg caacggtttt caggattcga gatttcttgt cccatgggtg 180
 aaagctttta ccatctatat cgggtcagtt aaataagtgc aatggccttg tttttaaaaa 240
 cctgttaatg ggaaaaccct gggggtttcc aaatttaatc cccttgaaaa aaatcgccat 300
 ttgccaggtt gagaaatttt gaaaaag 327

<210> 32215
 <211> 477
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-048-Q1-K1-B2

<400> 32215

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 aagccaagct ggcgccagcc aaagggtatt ggactccgtg tcaggaagaa gttcaaggga 180
 tgcaccttga tgcccaacat tggttacggc tctgacaaat caaccaggca ctaccttccc 240
 aataagttca agaagtttgt ggtgcacaat gtctctgagc tggagttgct catgatgcan 300
 cacagaacct actgtgccga gatcgccac aacgtttcaa ccaagaagcg catggagatt 360
 gttgaacgtg ccgcgcagct cgacattgtg gtcaccaaca agctcgccag gtcccgcagc 420
 caggaggatg agtagtctgg tttcttgtca taacggncaa ctagatcctg ccattcc 477

<210> 32216
 <211> 490
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B4

<400> 32216

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 cagcaccagc accagcacgt cgtcatctga ataaccagc ccagtccttg gactgcgaga 180
 tctctgaacc cccagctcat cagctcacag gcacaaagga gaacagtctt aaggtgaaac 240

tgctgcaagc aaggctagag gggcagcacg ctcggtgag cgcgtcagtg ttccccctga 300
tcagcacaag aaggaagtga tgccactcgt gagcttccat gatttcgacg cgcaacacag 360
agttgcaatt gtaagatagc tgaatattgt tagctcgagg caattggact cgggtgtgaat 420
cctagatcca gccgcgtatg ttgtagattt gatctgctaa ctgtcagact agaatcgaat 480
caagatggac 490

<210> 32217
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-B5

<400> 32217

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ctgaacctcc aagcagcaag cgatgaatgg aaggacgcaa gcaattagcc tgatggtgca 120
ccttgctgtg ccatggctct gccttgcttc ttgggcagct ctgctaccag cgctactagc 180
atctggaaat gtgggtgcag cagcttcgac actgagagca gagtacatga atttgaactt 240
tagcaccgct tcggcgaccc ccgacaagta caagagcttt atcgcttctg ttcgtgctgg 300
cttggtgagc aaagcggggg gcaacagcag cgggatcccc gtgct 345

<210> 32218
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C10

<400> 32218

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gagtttatgt ggccctacta caaatcggc gaagccaaaa gaacaaagtc agccaccttc 120
agcttcaagt gagcggactt gacaggattt tatttgagtt ggacgggttac atactaaaaa 180
attgaaatag gctagcttgg tcggtgtgcy tccatgtgct gtcccagtgag agcagcagca 240
gtgaggtgta cagcatttgc tgaatgtgaa agcagtcctta cagatctgta gaaaatgttg 300
tgtatatoca tgtagcagc cgaactgtta tttggtgtac agtgctacac at 352

<210> 32219
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-H11

 <400> 32219

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 cgcgccctacg tgtttctcgt cgtgctcctc ctggccgctg tcctcgtggc accgttcgcg 120
 ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgccga cgcgccggag 180
 gccgccgcac catcaccggg gcctggctcc gcctcgtcac cggactcctc gtcggatgcg 240
 ccctcgagca gcagctcctc ggactagata gctagccgct tgaccgacga tctcgttctc 300
 catctacacg gcgatcgagt tctagctttg tcgacatgca atgcaaaatt ccgattcttc 360
 gggaataatc aagccccaaa ggaatgtgcc tggatcactc actactagta ccttggtttt 420
 atatatgttt tctcttctga cgctct 446

<210> 32220
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C12

 <400> 32220

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 ttgtcaacgc agctgatagc agagagattg ttttcactcg taatgctact gaagctatta 120
 atctggtagc ctattcatgg ggactatcta acttgaaaga aggagatgaa attgttctta 180
 cagttgcaga gcatcatagt gctattgttc catggcaatt tgtttcccag aagactggtg 240
 ccaccttaaa atatgttgga ttgactaaag aaaatgtccc agacattgag cagttaaaag 300
 ggtttctgtc gaacaagaca aagatagttg ttgttcatca tgtctcatat gttctaggtt 360
 ccatgcttcc tatcgaggag attgtaacat ggtcaaacag agttggagc 409

<210> 32221
 <211> 284

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-F1

 <400> 32221

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 agggggccgg cggtgccgga tccgctgtcg aggcaggggt cgatctactc gctcacgttc 120
 gacgagttcc agaacacgct cggcgggatg gggggagggc ttggcaagga cttcggctcc 180
 atgaacatgg acgagctgct gcgagcatc tggaccgccg aggagagcca ggccatggcg 240
 tcngcttcgg cctcggcctc ggcctcggtg tccgcgctgg gggc 284

<210> 32222
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F10

 <400> 32222

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 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180
 gaaggtggct acaacaagtc gggcggcgat gacgactacg gccgcagcgg cggcgatggg 240
 tacggcaggt ccggcggcga cgactacggc cgtggcaccg gcggcggtgg ctacaacaag 300
 tccggcggcg gagacgacta cggccgcagc ggccggcgac actacggccg tggcaccggc 360
 ggcggcgggt acaacaagtc cggagacgac ggctacgaca gcgggtacaa cagatcgggc 420
 accaccaacg acgacgaata 440

<210> 32223
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F11

 <400> 32223

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 cggtcacgt caggcttggtg tgctgctctt gtccccgttg tggtttgcaa cacctgatgt 120
 tgtaagactt tctgggttatg tccgccccgc tttgccactg ggttattaag aacgtcgta 180
 tggatggttg tctacact 198

<210> 32224
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-F2

<400> 32224

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 gtgcctcgtc cgggtgggct tgcaccagct gccggtggtg cgccgcctct cgcgccagt 180
 gaagtcggag gtggagtcgc cggactacca ccgncagcgc cgggaggagg ggctggcgcg 240
 cccggtgctc gcgctggtcc aggcgcaanc gacagcgccg ncggatgacg acgacgacgc 300
 cggccccgtg cacaagcgct cg 322

<210> 32225
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F3

<400> 32225

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 ctagaagact ctccatgcat atgtgtctgt tcagctaaag ctgcgactgc acaagcaa 180
 ccaccagaag aagctgcttc agcggtcgtt gtcatatcac catcatcaaa aggccttgaa 240
 ggaattgatg acggtgtagt gcttacaca 269

<210> 32226
 <211> 383

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F4

<400> 32226

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 accgccccgc gtctccggcg aaccgcgcgc cgcagcggag gcgggcggcg agatcgccgc 180
 gctcgacaag cagctcgccg tcgtcggcgg cggcgaggag aggaggccgg ccggggccgg 240
 ggccggggcc gccagcgcag gcgggggaag gaagctggtg gcggaggcca tgcgcaagta 300
 cgctgccccg cggtcgtcgc gcttccacgg cgtcaccagg ctcaagtga gcggaagta 360
 cgaggcgcac ctttgggaca aca 383

<210> 32227
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F7

<400> 32227

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 ggcgcgcat cccagccgca ccgcgcggcc acgttctctc cgctgaagag gcgcaccatc 180
 tccgcatcc acgcccgcga cccgtctaag aacaacgggc ccgccgtccc c 231

<210> 32228
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-F8

<400> 32228

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 ctcgtccctg ccggtccga ccccgacccc catcccgctc gcgtccaacg ccatgaatcc 180

cgagtacgac tacctcttca agctgctcct catcggggac tccggtgttg ggaagtcttg 240
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tgattttaaa atccgcaccg ttgagcaaga tgggaagaca ataaagctac agatttggga 360
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cattatt 427

<210> 32229
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G1

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caggctttgt gtatctgcag ttcgatagcg tgactgcagc agcaaaggcc caaatgccc 180
ttcacggaag atggttcgct ggaagatga ttacagcgac atttatgtcc gctctggagt 240
acagtacgaa gttcccaaac ttgtgagcat atgcccggaa gaagtggcca gacctgcata 300
gttcggttgg agtattcgca agtgcttgat cgttggatgg tagacgaaca ccttattgat 360
tgtatgacag gatagttgca gcaccgggcg tcactatcag tacaatgctt gatgtacttt 420
attta 425

<210> 32230
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G10

<400> 32230
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aggggggaca atataaagag c 81

<210> 32231
<211> 451

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G12

<400> 32231

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agctttgatt atcaatacag tagatttttc ttgggtcttg accatattca gagggaggtc  120
acaaaagacc ctctggctac aatttcagtg ggtttgtcat aggcttaatt tttttattag  180
caaattgttc tggacttgtg tcaccaagca tttttgtaag ggtgagagta ataattattt  240
tgtaactagc taacatcaag cattttcttg gcttcttcaa cattttttca tctgttcttt  300
tctgatctga aagctgcatg aattagtcct gcattcctat acaggcaata gttctgttac  360
ttcagctata taatttatat ggcaaataca cgttacaaag ttgcatttct tcacagccat  420
atcttcatga gtcccgacat cgtcatgcc a t                                     451

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<210> 32232
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G3

<400> 32232

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gcaagtccgc gctccgccgc atctccgaca agctccgtag cctcggctac ctcgagaccg  180
tctccgagcc cccactccg gccccgaaca agagcgggga cgccccctcc cccggcgaga  240
tattcgtgcc cccccggcc cagcttccgc gccaccgct cggtccacc ctagaccgga  300
gctgggccac gggcgacggt gaggttagct ccacctcgcg gcagcggcgg aggggccgcg  360
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gggacga                                           427

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<210> 32233
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G5

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tgcttttoga tacagatttt ggaccaatca aatcctgcat tgcgctgctt gccagctaga 180
aaactcctac ttcggacccg aacaataacg gggactctac ctttccctgc gagatattct 240
tgaccacacc cgagcaaatt ttcgaggcac cgcgtacggg tcaccctttt aaacaagggtg 300
ggccactttc gaaggt 316

<210> 32234

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G7

<400> 32234

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tgtttcacct aggaggggac gtggtagccc atcaccacgc aggcgctccc ctgggcctct 120
taggcggcgc tcaccacctc caaggcggtt gagaagccca ccaagaaggc caccacctcc 180
acgtcgcttc agtcgctctc ctctcgccg accccttcgc tcccgctcca gatcaatttc 240
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<210> 32235

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G8

<400> 32235

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 cacaaagatc acagcatatt cgcacacaca agactcagac ttaagctcat gagactagca 180
 cactataacg gaggtgttct ttttagctta gctaggaatg caaatgactt gattcggttg 240
 aaaaaaaca aaaataaaaa aaatataaaa aaaatgacta atatgaaaaa ttaaaaaaag 300
 aaaattattt aaaaatgaaa acaattaaaa 330

<210> 32236
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-G9

<400> 32236

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 agaaaggaca aattcaataa aacaacagcc aatacttaaa aaacctctat cactacacgg 120
 ccctcctcct attctgacct tttttacctt cccaccctt ccaactactt agcttttctt 180
 tgccacaact tccttcactt ccattgcccc cccttttaca actccggggc tcgaaaacct 240
 tatggacctc aaaccttatt ccctttccag actatcccct tttctccaac tcacttat 298

<210> 32237
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E9

<400> 32237

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 gccggcaggc atcgcacggt caccaccatg gcggcgagg agggcgcat gaggtggtg 180
 tcgcacccga tcgcggcgca cgacggggcg ctgccgcggc agtacacggc ggaggggcag 240
 ggcgccaaga aggacatgtc gccgccgctg gagtggtacg gcgtgcccga gggcgcgagg 300
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454

<210> 32238

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-H1

<400> 32238

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atcgtttttc cccatctccg ttggattttc tgcacgagt actttcagt atctgaaggt 180

tactggaatt ctctctctga aggaaagcaa cccttccaag ttttctcaac gggctcggtt 240

ggtcactggt aacttcccaa gtggttaaac cctggaccg tgagggtgt tccactggaa 300

ggttccaata ccaaaggtaa ttgccgggac ctattccagc cattggaccg gagaatattt 360

tggggttga aaaattcttt accaatcgcc tcttaatg 398

<210> 32239

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B4

<400> 32239

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ggatgggcta tgaggatgag cctccagaac ctgagattga ggaaggggccc gaagaagagc 120

ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agagggtgaa gataaggaac 180

aggaaaagac caagcgtgag cgcaaaacaa caaatatat gacgaagtat gaacgtgcgc 240

gcattcttgg tacacgagcc ttgcagataa gcatgaatgc tccagtcag gttgagcttg 300

aaggagaaac tgaccctctt gagattgcga tgaaagagct tagagcgcg aagataccct 360

ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420

ttgtg 425

<210> 32240
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B5

<400> 32240

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aagaggaaat tccttgaagc ggggtggaggc aaatacggac tgccgtgtgc taataagagg 120
tcgtggcagc atcaaagatc cagcacggga ggaaatgatg cgaggggaagc caggatatga 180
acacctgaat gaacccctcc atatatgtgt tgaggcagag ctacctgttg aaatcattga 240
tgcgcgctg atgcaagccc gcgagatcct tgaagatctg ctaaagcctg tggatgaatc 300
ccaggactac ttcaagaagc agcagctacg ggagctcgca atgcttaatg gcacccttcg 360
tgaggaaggg atgcagagat ccggttcaac gtcccctttc cacaacagcc ttgggatgaa 420
gag 423

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<210> 32241
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B6

<400> 32241

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cgggaattccg aaggttgggc atggaggcga gcggcgagaa ggctgcggtg gtgcgacggc 180
tgatggaagc gaaagaagtg ttcgggaaga ccttctcggg aatcgccgcc gagacgggtc 240
tcaccaacgt ctacgtggcg cagctgctgc ggcgccaggc gcagctcaag gccgacacgg 300
tgcccgcgct gagggcgggc ctgcccacgc tcacggacga cctcatcgaa ctcatgatgc 360
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atg 423

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<210> 32242
 <211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-B8

 <400> 32242

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 ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agaggggtgaa gataagggac 180
 caggaaaaga ccaagcgtga gcgcaaaaca acaaaatata tgacgaagta tgaacgtgcg 240
 cgcattcttg gtacacgagc cttgcagata agcatgaatg ctccagtcac ggttgagctt 300
 gagggagaaa ctgaccctct tgagattgcg atgaaggagc ttagagcgcg caagataccc 360
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<210> 32243
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-C10

 <400> 32243

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 catattacct aggtgcatcc tttggtatat gcttatatac gtcgaatctt gtagaggctt 180
 actttaaaat cattcaattg tataatgatt ttggcacatg aatcaataga atatataaac 240
 atccaagctg actcaagggc aattgcaact ttgatgctga taacaaatat tcttactaac 300
 agtttttcat gctgggtaat att 323

<210> 32244
 <211> 164
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-C11

 <400> 32244

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 ataattttata aaaaaataaa aatattaaat acataaaaaat aataaattat taactattat 120
 ataatttaac aatatattaa atttattatc ctatcttttt ataa 164

<210> 32245
 <211> 66
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C12

<400> 32245

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 gtatgt 66

<210> 32246
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C7

<400> 32246

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 gtgccagcta catggcgccg tatgttggac gagccaggca gcatcagatc gttgtttagt 180
 tagttgctgt tccgtgtatg tagacgtgta gtgtagagcg atgattttta ctaggtgggt 240
 gctattcaaa gccttctgat ccagcaaccc atcaaatgag gtgttgtaag tacaagagaa 300
 taaagagacg tgattcttgc ttgaaaaaa aaaaacttaa ctgaggaaaa gctggaaaaa 360
 agtatatgga cagtaagaat att 383

<210> 32247
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-C8

<400> 32247

ggaggatcac gctgacactg agacgcttcg gttatggaat acgacatgag gacacggggg 60
 atgagagcct atagctagcc cgagcaagcc taacttaaca ccatggacat gttatgccac 120
 tgatccagct a 131

<210> 32248
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D1

<400> 32248

ccacgcgtcc gaaaaaaaaa aaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 tgaaaaatat aaaaaaatta acaaacataa aaattattta aaaaattata aaaaaaatca 120
 cacctttcta taaccataaa gatatttaat tatacaataa actgtattaa ataaactaaa 180
 aaaattgggt cactttttta aattatactg ttttgtacat ctcttgtcta tacttgattt 240
 ttttttttat tgactcttaa aacaattttt tgactcggtt tttt 284

<210> 32249
 <211> 242
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-D2

<400> 32249

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 ctcagcctct gctacctaac gncctgtca ctgaggtgcg ccgtggagct tggcatcccc 180
 acggcgatct accgccatgg cggggctgcc tcagccgctg aagctgtcac ggcgtgtct 240
 ct 242

<210> 32250
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D4

<400> 32250

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caacgttacc agctatacag gccacatca accgcttaca gccgcacatc gccgtcctac 180
agtgcactt gaccatgtta taggcctaca ttaccttcat acagccgtac gtgcccttta 240
tacagcccta cgtaccgctg atacagacct acctagcgct gctacagccc gacatgacct 300
gcttacagcc cgacattacc aggatacagc ccaacgggac cgaactacag tcctacatct 360
ccgagctaca ggcttacatt tccgagctac aatccttcat cagtcaagta caggccttta 420
c 421

<210> 32251

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D7

<400> 32251

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tgcggtgtc tagcataggc tccccttgct tgcttggatc ctgactttaa atgccttcac 180
taatattccc gcacacggta gcttttaacc actggctgtt caaccaaacg cgatgaccaa 240
ctgtgtgaat caaccgttcc tctcgtacta aggttaaaat gctactcgcg 290

<210> 32252

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-D8

<400> 32252

cccacgcgtc cgtttttttt tttttttttt ttttttttta tcggtctttt tataggatcg 60
gg 62

<210> 32253
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E11

<400> 32253

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 gcgagtacat cggcgcgcag tccaccggcg tccagttctc cgacgtgccc atcaacgcct 120
 tcgttagctt ccacttcata ctctccttcg ccatcgacta cagccccgtg gggcagcagc 180
 cgaagccggt gccgaccaac ggggtgttca gcccgttctg ggacacgggc aacctgtccc 240
 ccgccgccgt ggccgctata aaggcctcgc accctaacgt cgccgtcatg gcgggggctcg 300
 gcggcgacag cgtgcaggac atcgtcaagg ccttcttcac cccgacctcc gtcgacacgt 360
 ggggtggcaa cgccgtgacg tcgctcacgg gcatcattaa caggtacggg ctggacggcg 420
 tggacgtgga ctacgagcac ttcgccgac 449

<210> 32254
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E12

<400> 32254

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 tggagtacat tgtcgcgcag tccatcatct tccagatcta cgacgtgccc atcaacgcac 120
 ttgttagctt acacttcata ctgtacttcg acatagacta caggtcatg tttcatcacc 180
 tgaa 184

<210> 32255
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E4

<400> 32255

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 gtgacaaata aaaaaataaa ataaaaaaca aatacaataa aaataaccta caaaatcaac 120
 taccacatac aaataaagca acaaacaaca caaaataacc aggcttgact ctttaaaggt 180
 acccacttta aataacagta cctcacactt aaaaaccttc ttaaaggtaa tcattacaat 240
 attaatccct caactattat acaacgtatg gcttgtaaaa accctgcatt acccaaaatt 300
 aaatctctaa tagcaaatcc cctttttgct gccttttaaaa aacccaaaaa tccccaccc 360
 tatcgccttt tcaaa 375

<210> 32256
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B12

<400> 32256

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 gtgaggggtat cgtgcacggt ttcggcctgt acggcctgaa acgtgccggc gtcgtcctcc 120
 ttctgagagg cccggctgac gatgcgcaag acggtatgcc aacgtcaagt cgtcagccgc 180
 gtcagggagc ctacggtacg gatgctaccg agtgctgtac ctggggccac tgtgcgggcta 240
 gacgtctagc tacctgacag gcgagtttcc tttcgac 277

<210> 32257
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-E7

<400> 32257

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 cggcggtctt gtcttcggca tcttcccggc cacgctcgtc ggctccgtag tcaacgccgc 120
 catcctgctc gccctctact ggaaccagct ggacggcgga tgcaagcccg ccgccggagc 180
 ccaggagggtg gtcgccgtgc ccaccgaggt cgtcgaggag gaggacgtca cgtcgcaccg 240
 cttctcgccc ggcaacatgt cgcaccttct ncttcgacgc gccagtccc agcaggtgcc 300

ggccggctac gacgacgcgg cgaatcaaga ccccgtaag cgcaccaacg gcgtccacca 360
 cagaaggaaa gcagcgggtga acggcgattg cgacggcgac ggcgaccgct actac 415

<210> 32258
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-E8

<400> 32258

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 tttaatggac ctgttgtgtc ctctgtgttg taccctaaac tcttctgcag cagtattggct 120
 tgaatccttg tgaagttacg atgtttgaac ttaaaagtct gctcattatg ttctttttct 180
 ggttatatct cctaataact gcctgggatc aaatttgatt cactgggtgtt tattggacca 240
 ataataaccc gacaacatgt cgcacctact actacaacgc gcac 284

<210> 32259
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H11

<400> 32259

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 cgagcgattc gactcctttg tgatctctcg gcggggtaga gcgcggtcga ccgtcggcca 180
 tgtcgaggtg ctccccctac ccgccaccgg ggtacgtgcg gaaccagtg gccgtggccg 240
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 cgtttgttca atctgtaggt tttgcgcgga tctgtggttt gcgcgtgcgt gatgtgggta 360
 ttgcccgtgc cttgaaagct aaccgagctg aggaagtgtg tggatc 406

<210> 32260
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H3

<400> 32260

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cggtcgcgatg gcgagcgctt gcgccacctc cctccccctc gtctcggcgc cctctgcatg 120
cccgtccaag aagaccaccg tcgccaggtt cgggcgcgcg acggcgacgt gcagggccag 180
cagcggcggtt ggcgggtggcc ggggcggcga aaatgatggc ctccctttggc tgccccggcg 240
ggacgtgatg ctcaacggcc tgtccagtgt cgcgcgcggg ctgccttggt accccggcgt 300
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<210> 32261

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-H4

<400> 32261

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gtgctgacgg cgattaggtt tccgaatcgt gtttaagcgc tgcgaaatca ccgctggggc 120
ttcgtcctcg agtcgtcgtc ctgctggatg tcacctcgtg tcccgcgcgcg acgccagtgc 180
ccgtcctcgg agccgcctct ctccgacgat cgcgcggagac ggatacggtc gaagccgtca 240
ctgcaggccg cgctcgtgcg ccgtagcaga tgtctagtag ctccaacggc cattatcctg 300
ctaattggtgc aaagattctt catagaaaag aaaagaatat agagaaagta cagctcgaca 360
aanattcagc cacttgggtg tgccagaagg acaggcatta tggtgaaaat 410

<210> 32262

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-H5

<400> 32262

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tagcctctag ccctagctag tagctagcca ctcggtcgtg tagtcatcag ctttctgac 120
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ggtggtggag accccggctc cgcccgccgt cgtgcccagag gaggctgccc ccgccgccga 240
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cgaggcggtc cccgtggcgg cgagggaaga gacgccaaaa gaagaagaga cggcaaagga 360
agcggaaccg gagccggagc cggcggcggc tgaaaaagtg aaagaggaag cggcagcgcc 420
cgctgccgag acagaagcag 440

<210> 32263

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A11

<400> 32263

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acgaccatgg cgtcccaggc catcgagagc caccgtgcag gcgctgaggt cgtcaccgga 120
ggagacgcaa tctgcaggaa gaagtcaatc gagctgctgg aggagctcgg cctccccaag 180
ggcttctctg ctcttgagga catccaggag ttccgggtaca accgcgtgac agggttcatg 240
tggtctggtg aggggaagaa ggtggagcac accttcaaaa agatcaagca gactgtgtcg 300
tacgccactg aggtgacggc attcgccgag aagggaagc tgaggaagat caccggcgtg 360
aagacatagg agctgatgct ctggctcagc gtcgtcgagg tctacgttcc cgaggcctca 420
ccagag 426

<210> 32264

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-047-Q1-K1-A2

<400> 32264

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aagctgcggc tgcnctcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac 120

gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc ccggagaaga aggccgcgcc 180
cgagttcgtc gaggccgcgg cggagtccgg cgaggcccgc cacggctgca gctgcggtgg 240
caacttgtag tgccaccctt gcaactgctg atcacatcga tcgacgacca tggatatgat 300
tattatctat ctaac 315

<210> 32265
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-047-Q1-K1-A3

<400> 32265

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tcatgagtgt gccactacat gtgctgctgc tctgagctct ggctgcaaca atggtgggta 120
acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180
gccaaactcta tggggcctgg tgacggtgct tggtttatgg aatgggatgc agctgcgcag 240
tcgatatgga tcagcaccgt gacttgtatt tgtgctgtac atnccgccg ttgtacatga 300
actaactgta ccctgtgacc tcacctgtg tacantaaat gtctttattt aatgggaaaa 360
aanaaaaann anaa 374

<210> 32266
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A4

<400> 32266

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ggacgaagcg ctcatcgagc ttgcttcgat ggcggaactg gctgcgtacc cctggggtag 120
atcatgctct tcggagcacg gggattgcaa gaacggttcc agcagtaatt c 171

<210> 32267
<211> 357
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A5

<400> 32267

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gcggcatcgt gcctggcgtc gtgctgcgcg gcgtgcgcgt gcgaggcgtg ccggacggcg 180

gtcggcagca tcggccgccc ctccgcccgc atcgccact gcggcctctt cgcgctctcc 240

ctcttcgcat cctgggcgct ccgcgaggtc gccgcgcccc tcttcagtc gatcccatgg 300

attaaccact ttcacaagac ctccgaccgc gagtggttcg agaccgacgc ggtgctc 357

<210> 32268

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A6

<400> 32268

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ctcgcaggag ccgggcaacc ctaccaaattc ggccaaggcc atgggaaggg acctgagggg 120

ccacttcaag aacacaaggg agacagcttt tgggcttcgc aagctgcctt tgaccaaggc 180

taagcgatac cttgaggatg ttattgctca caagcaggca attcccttcc ggagatactt 240

gggaagtgtt ggtcggacct gacaagcaaa gtctcgccac tccaatgggc aaggtcgctg 300

gcctgttaag tcagccaggt tcatattgga tttgctgaaa aatgctgaga gtaacgctga 360

tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac attca 405

<210> 32269

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A7

<400> 32269

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gtcctactag ccagtcgact ctatctgac ggccaatgcc atgcaccagg ctctatatgt 120
gcagtataat aactcaagtt atactgctct tgcaattcgt acgatgcatt ccaccaattc 180
taaaccatac tttaacgctg ttattgtcac atcgccctaca gtccctt 228

<210> 32270
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A8

<400> 32270

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cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac 180
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cgagccagct gccgcgctg agcccgaggc ggccccctg gcggcggagg aagagacgcc 360
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-A9

<400> 32271

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ctcgcgacgc tggcgctggc cgtgctcctg gcggagaccg tggtggctcc ccagcacgc 180
ggagcgcgcg gccatgtcgt gttccaccgc gtacagcacg ctgatgcc 228

<210> 32272
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B1

<400> 32272

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agaaaaagaa aaaaaaaaaa aatgaaaaaa atatataata atacaaaact tacgtaaact 120
tatattaaaa attatataat attatatata cataactaaa atgaaaaaaa atggtggttag 180
ttttaaatt tccaagctta ttaaaaccct tttt 214

<210> 32273

<211> 341

<212> DNA

<213> Zea mays

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<400> 32273

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catgatgagg aagagagaga gtgaaaggag tgggagactg ggcattctccc cccaccattc 180
ttggcgagat cctcatcgat gttactggtt ggtttcaaata aacatcctgt aataaaattt 240
cttctccaaa aaaaaagaca aaaaaaaaaa caatacaga tagaacaaca aaaaagataa 300
aaaaaaaccc agagacaaat agacaataaa caggaacttg a 341

<210> 32274

<211> 455

<212> DNA

<213> Zea mays

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<400> 32274

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ctcgggtattc accctgtaca ggaacaggga gaagatcctc ctggttgtca agacgtattg 180
gactaccat gaggccatga ccaagatcag tagcaggact gtcaagtaaa attctcaatg 240
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tctcttgacg gtttgtgctt gctgttcttt ctggacagta cttgctcggg taggaaattt 360
aacatgtggg ggaaggaagg gtaggtagta agaccctgg cccctgcaa gttttcttca 420
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<210> 32275

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-047-Q1-K1-B11

<400> 32275

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gcgcatccc gggggcgctt gccgacctgc ccagcctccg gtcgctggac ctgcggcaca 180
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ggcccatcgg caaggtagac ctgtcgtgga actacctcaa cttcgacctc agcaggctgg 420
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<210> 32276

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E1

<400> 32276

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accaaggctg ccgcaaagaa gaaatgatgt gtctggctgg ttctgtgttt gcttgaggga 180
aacctagtgg aaacataaaa tatctcgtct tgttcacgtc attgtctgaa ctatgctcgc 240
aacgtttgcc tggtcgattt agaatggta ttttcgttaa aaccagagtg ttatttaaga 300
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<210> 32277
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E10

 <400> 32277

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 caggagcata ctgcgagcag accagcgctg ggtgctgcaa gccgaccacc ggcgctctcg 180
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 tga 243

<210> 32278
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E2

 <400> 32278

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 tgaggagatg cctgatgtca ggaaactgga catccgaaac ttctgttagg cctgatcgac 180
 gataaccttt gaggcattgc aaatcaccca gccacactgt gatttttttt cttttggttt 240
 tggtttcaag ttgatcgggtg ctgtaagcta cacctatgaa tgctgctcct tccttttttt 300
 gtaataaaaa aaactgcacc gaggtacaca aacacagtca acccgtgaat tgaagtgaat 360
 ttcttt 366

<210> 32279
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-E3

 <400> 32279

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 tcttgtttca ccgaggaaaa gagagaagtt ctggataaat tgacaatgtc aacttgaatt 180
 gactaattca gttccgccta ttccacatta atgggagtag atttatgttt ctgctttacg 240
 aatatgatat tttttggaca tttctaataa tagcaagcct ttttcctatt ttggtatttt 300
 ggatttcagg acttttagcc ccgggtagtg aaggaccaga gaagctttct agttatgaat 360
 cgggtataga acccatgggg gggggctggg tacaattccg aatacgctat tacatgtttg 420
 cgcctagttt tgggtggttt gatggg 446

<210> 32280

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E7

<400> 32280

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 agggaggact acgtcgagaa cgccgtcaag ttcctgtccc acccaaaggt caggggctcc 180
 cccgtcgtct acagacgatc cttcctcgag aagaagggcc tgaccacaca ggagatcgac 240
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<210> 32281

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-E8

<400> 32281

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 gcgcaaccac ggggcgtgcy cggcgctgct gaaccgctca gcggcggagc ccatgggtgtg 180
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ggcactgatg gacgccaata gggagagggga ggagaagatc ctcaagggca tcaccaagta 300
tccgcaggca tcgcctactt cgccttgcca gcacgatgcc attgacgaag cgtcctcgga 360
ggccagcgcac gcgagactgt gctgcatctg cttcgagcat gcgttcagca tcgacgtgca 420
tgactgcagg caccaaattgt gcgcggcgtg cacg 454

<210> 32282
<211> 170
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-046-Q1-K1-E9

<400> 32282

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cggtgccatt gccttctaata tttttgaac tttccgatag ggagcaaact acacttcttc 120
cacttaatcg ggctgcaaca taagcacctt ttacctagtt ctgacactga 170

<210> 32283
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F1

<400> 32283

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gatgagggag agcgaagatg cgccgcgtcg cgctgttgct cgtcgccgcc gagtgcgcgc 120
tggcggcgcc ggatgacgcg gtcgtcactg acgggcttct cccgaacggc aacttcgagg 180
atggccccgc caagtcggcg ctggtgaacg gcacggtggg gtccggcgcc cacgccatcc 240
cgcggtggga gacgtccggc ttcgtggagt acatcgagtc ggggcacatg cagggggaca 300
tgctgctggg ggtgccgcac ggcgcgcacg cagtgcggct gagcaacgag gcgtcgatcc 360
ggcagagcct ggccgaggcg cgcggcgccct actacggcat cacg 404

<210> 32284
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-F11

<400> 32284

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aggccgtcat ccccgcgacc gaccgcccgc cgccgcccgc gccggccgac gactccaagg 180
ccctggccat cgtcgagaaa gttgcagatg aacctgctcc cgagaagcct gccctgcga 240
agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca gagaagagga 300
actctttgat caaagcttgn gaagagaatg agaaggacaa agctgagaac aaggctgcta 360
agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaa 406

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<210> 32285
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-F7

<400> 32285

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gcaaagctta taggcattcg tgtcccaacg ccctcgacct attctcaaac tctaaatagg 120
tttgacggtc cacttgcttc agtgagccgt gccaaccaat ctgcagctcc aaaatcgcca 180
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<210> 32286
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G1

<400> 32286

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ctaaagaaaa tgccctgggt gagagcaagg ccacgcacat caaccgtgg cagctcaagt 180

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cctgcaccaa ctgcaacttt ttcttttcgg gcttctacac ctgcaactac tttaaaaaga 240

c 241

<210> 32287

<211> 347

<212> DNA

<213> Zea mays

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<400> 32287

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cgctggcggt gcgacctcg gcgcgacgag cgctggctct cgggggccc tggcgacgac 180

caattcgacc gcctcccga gcgctcctc ctgctcatct tcaaccgat cggcgacgtc 240

aaggcgctcg gccgctgtc cctcgtctcc cgccgcttcc acgagctcgt gcccttgtc 300

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<210> 32288

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G5

<400> 32288

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ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccgg ggcagctcaa 180

gtgctgcacc aactgcaact tcttcttctc ggggctctac acctgcgacg acgtcaaaaa 240

ggactgcgac cccgtctgca agaagtgcct cgtcgccgtg cagccttct acttgggcaa 300

caaccagttc aagtgcaccg acaactttct tg 332

<210> 32289

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G7

<400> 32289

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gcctccgctg ccgattcgaa agcaccgctc ctgtcccctc gcaaaaccct agctccagcc 120
accatgaagg gcaaggctga cacctccaag aaggacgagg gcaggctccg ggcgggcggc 180
gccgccggaa agcgcaagaa ggccgccgag agcggaagc ccaagcgccc gccctacgcc 240
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agcgttgcca ccgtgagcaa ggagcaagg gaaaagtggc gtgctatgtc agatcaagag 360
aagcaaccat atgtggacca agctgggcag aagaagcagg actatgagaa gactaaggcg 420
aactttgatt agaaggagag cacaagctc 449

<210> 32290

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G8

<400> 32290

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accataaaga acatgcctta caccataaac aaggactaga ccaaactc 168

<210> 32291

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G9

<400> 32291

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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-D9

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 tgc 423

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 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A8

<400> 32293

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<210> 32294
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B1

<400> 32294

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<210> 32295
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B10

<400> 32295

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<210> 32296
 <211> 394
 <212> DNA
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<223> Clone ID: LIB3068-046-Q1-K1-B12

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394

<210> 32297

<211> 121

<212> DNA

<213> Zea mays

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<400> 32297

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gcataggaaa aaaaataaaa tattaaaaaa ataaaaaaaa aaaaacaaag acaatctata 120

t 121

<210> 32298

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B5

<400> 32298

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ccaggccgac gccgggtacg gttacggcgg cgggtacacc ccgacgccga cgccggccac 180

cccgaccccc aagccccgaga aagccccac caaggggccc aagccggaca agccgcccac 240

ggagcacaag ccgcccaga gcacgggccc aagccgaaaa gccgccaag agcacaagcc 300

gacgccgtcc acgtacacc cgagccctaa actcacgccg gcgacgtaca ctcccaaccc 360

gaggcccccc aagccg 376

<210> 32299

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B8

<400> 32299

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tggagaaaacg ccataactat gtccgcaaaa cagctgaact tgctaccag tttttcatc 239

<210> 32300
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-B9

<400> 32300

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<210> 32301
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C11

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tgactggggt cactatgcta cgatgactga agatattgga gagcaagtgc 170

<210> 32302
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C12

<400> 32302

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ctcgataata ttactttggt gcatcgtgag ggaaatgctg ttattcgccg tcacttggag 180
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gcaaaacgtc ttccatgcaa ggaatcattg atttcacatg ttccccgagg gaccttttct 360
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<210> 32303

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-C2

<400> 32303

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atggagaaat ttcttatgtg aagattcctg taggcaagca ttgtggattt gttcaattta 180
ccagcaggtc atgtgctgag gaagccatcc gaatgctgaa tgggagtcag gttggtgggc 240
agaaagtctg gctttcatgg ggccgtagtc ctcaaaacag acaggcttct cagcatgatg 300
ccaacaacca gtataatggg aacagctatt atggatacca acagccgggt tatgaagggt 360
atggctatgg tgcttncagt gcacaagacc caagcataca aaactactac ggatactctg 420
gttgtggtaa ctatgaacag cagcagccaa cac 453

<210> 32304

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-C5

<400> 32304

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cactacttta acgttatttt acttattccg tgggacggaa gctgggcacc gcccttcctt 120
ttgggtccaa ggccccgacct attcttgcca attctggcct atgacattgt catgttaaga 180
gttcggcttg tgctcacat gtcttaactg ataacatatg agtcctatta tgagctgagc 240
tcgttcagaa atcattcgtg ttacataaca ttataagctc gcgcgac 287

<210> 32305

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D11

<400> 32305

cccaggcttc cggaacaatc gacggccagg gagccctggt gtggaccagg aaccagtgcc 60
agggttctta caattgcaag atcctcccgga atagcttggt gctggatttt gtgacgaacg 120
tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180
gcaagaacgt gctgatcgac aaagtgacgg tcaaggcccc cggcgacagc cccaacacgg 240
acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300
gcgacgactg catctacatc ggccccggga gcaagatgat ccgcattcat ggcgtcaagt 360
gcggcccang ccacggcatc agcgtcggca gcctggggcg ctacaagga 409

<210> 32306

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D12

<400> 32306

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tgggatttag ctcaggaacc cacgcctgac atcccccttt cctccccggc cggcgatgtc 120
gtcttcgtct tccgcgctgg ccaaaggcaa gtcggcaatc ggatccgcag ccggatctgc 180

caaattcgag gccaaagggga aattctccta ctctactcc ccagctgcgg cagctaccaa 240
 gcgtggaacc accaccacca gcagcagagg tagaggtaga gggaaagccg acaagaaagt 300
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<210> 32307

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A6

<400> 32307

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 ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
 cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacatggag attgaggaca 240
 agaagacaga gctggagccc aaggtcgtgg aggcctacga agcatctcct cctgaggtca 300
 aggctctgat caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
 ccaagttcct cgatgagctg gctaagattg actttcctgg agccaagggtg gtgagcgagg 420
 ccgtggcca 429

<210> 32308

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-D3

<400> 32308

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 ctagatctaa ccggactaac cagaaaacaa aacaaaaaaa gacgaaagca tgagccactt 180
 cgccgccgcc atgaagagcc cccttgcggt cgccgtcgcc gcgccccgcc gcgccccga 240
 cgctaagagc ccgctcttct gcccgaagcc ggggcgcccc gcggcgccgc tgcggtgcca 300

ccagagcggc ggcttctccg acgccggcac ggatctgctc gacctnctcc tctcgaaagg 360
cgacgagag 369

<210> 32309
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D4

<400> 32309

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gctagcttcg gtcggtcgat agatcgatcg atcgctcggc catcatggcg cgggaggagc 120
aggcgctgct gtcgacggag atcgtgaacc gcggcgtgga gccgtcgggc ccggacgccg 180
gtcgcgcggc cttctcggtg cgcgtgcgcc gccgcctgcc ggacttcctg cagtcggtga 240
acctcaagta cgtgcgcctc ggggtaccact acctcatcag ccacggcgtg tacctggcca 300
ccatccccgt catcgtgctg gtgtgcccg cccagcttgg caagcctaag cgcgaaacagc 360
ttttgcgcaa ggtgttgggg gagggcacct aacgacttgg caccgggctc ggctttcttg 420
gcgtgcttgg cttaacatc ttcggctaca ttat 454

<210> 32310
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D7

<400> 32310

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gcggtagatc ggctgagcga gcgagcgcgc gaggcacacg gagctagcta aacagagcac 120
acggatagaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180
ttatcctgcc gccgtcggg gtctttcttca agttcggctg cgggggttgag ttctggatct 240
gccttattct cactttcttc ggctacctcc ccggcatcat ctacgccgtc tgggccatca 300
ccaagtagcc cggccggtgc gttagcatgc aatgcgcgcg cagggtgatc tcgtggcggg 360
ggaacgcgtg tgcgcgtgct ttgagatgtg attccttctt ttcttggtta gttgctgctg 420

ctcctgctgg tgtagtactg gtgtatccag tccttttaat ttcttg 466

<210> 32311
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-D8

<400> 32311

atcgaccacg caccacacca acctataccc ataccagagg ctctctgatt ctgcgggtcg 60
agagcagatc ggctgagcga gcgagcgagc gaggcacacg gagctagcta aacagagcac 120
actgattgaa aagcaagatg tcggacggca cggcgacctg catcgacatc atcctcgcca 180
ttatcctgcc gccgctcggg gtctttcttca agttcggttg cgggtgttgag tgctggatct 240
gccttatacct cacttttcgtt ggctacctcc tcggcatcat ctacgccgtc tgtgccatca 300
ccaagtaacc ggccggagcg gtagcatgca atgcgcgcgc aggggtgatct cgtagcggcg 360
gacgcgggtgt gcgcgtgtct tgagatgtga ttgcttcctt ccttgcgtag ctgctgatgc 420
tcctgctggt gtagaactgg tg 442

<210> 32312
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F8

<400> 32312

aaaaaaaaa aaaaaaaaaa aaatttaata aaaaaaaaaa aaaaaaaaaa aaaactgaag 60
gaaaaattag gccgggcgtt cctttattaa cgatcttact ttctcttctt ttcaattcca 120
tatctttggt atcttgtccc ctaacttaaa ttcattcgac gggattttat aactcaactc 180
ttgggaaatc aatttccata cctcccttaa ctgactcgtc ttgcattact tattttctag 240
atgaagcaga taacctaaga cttccgctcc atctcgtttt tctaacaata cctttacctt 300
aaattatttt ggatatctcc ctctcttttt tttttaatt 339

<210> 32313
<211> 128
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-045-Q1-K1-G1
 <400> 32313
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 tgctatacaa cccaatctc cgggggctgt attattagga gccctccctc tcttatgaga 120
 cctacatg 128

<210> 32314
 <211> 224
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-045-Q1-K1-G10
 <400> 32314
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 ttttttaaaa aaaaatataa taacacctat aaaaattttt aaactaaaaa atcttataca 120
 tacaaactcc taactcttat atatttaacc gccccctctt tttaattatc caactttact 180
 tccctttttt ttcaaaattt ttttttttta ttatgtcccc ctaa 224

<210> 32315
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-045-Q1-K1-G11
 <400> 32315
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 tctaggccgc ccttgcacac caacaataaa ccgttgtttg ccatgaat 108

<210> 32316
 <211> 110
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-045-Q1-K1-G12
 <400> 32316

cggacgcgtg ggccggacgcg tgggcccgcg cgtggggcga cgcgtgggcg gacgcgtggg 60
 cggacgcgtg ggccggacgcg tgggcccgcg cgtgggggttc tagatcgcga 110

<210> 32317
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G3

<400> 32317

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 actgatctta ccacacctca tctaactttt aacacatatt ccacccatc caaactaccc 120
 aacttacaat ctcttctctc ctgatctgcc cttctaagcc taaccttcaa tccaaaataa 180
 agatcttata ccctatttct acccacaaaa ataatacaacc atccttataa atatttaatt 240
 ttactatct caccactaac tcccatttat tctacacct 280

<210> 32318
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-G4

<400> 32318

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 gctctccgac ccctagctcc aaaggccgga tcattaggcg cgggtccccct ctcatgtaac 120
 cgacatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc tcgtcatcgt 180
 cggcacatgg tggaactggt aaaactacat ttgcgaagaa gcatatcact ggatagtttg 240
 agaacaaata tgaaccaacc attggtgtga aaaatcattc tttggatttc accactaact 300
 gtgggttag 308

<210> 32319
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-G8

<400> 32319

ggaccgttga ttaccccagc ttcaagctcg tcatcgtegg cgatggtgga actggtaaaa 60

ctacatttgt gaagaagcat ctcaactggag agtttgagaa gaaatatgaa ccaaccattg 120

gtgtggaaaa tcattcgttg gatttcacca ctaactgtgg taagatcaag ttctactgct 180

gggataccgc aaggcaagag aagtttggtg gcctcaagga tggatactat atacatggcc 240

agtgtgcgat catcatgttt gatgtaacct caaggctact tacaaaaatg tttct 295

<210> 32320

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-G9

<400> 32320

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tttaactcat cttactacac cttcactatc ttttaacaga tgtgccgccc catccaaact 120

ccctacctga caatgtcttt cttccagatc tgccctttaa tgctcttctt tctaatactaa 180

aagatgtgct gtttctccct ttcgacccaa tatataatct aaatatctat aaaagtattg 240

atatttaaac tttctccccg ttctgttctt ctttttctt aaacctttcc aagatcattt 300

ttcacata 308

<210> 32321

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-H10

<400> 32321

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ccgggggtcgt ttatttgcta tgagattact cccccaaaa ctctcctnc ttcaccactt 120

ccatgcccaa agtcaatcgc ttcttctctt cactgtaacg cccctaactc aacaatct 178

<210> 32322
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-H2

<400> 32322

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gcggttccgc cgcgtggtgc gcggcgagca gcangtcgtg tccgggatga actaccgcct 120
ctacgtcgac gccgccgacc ccgccggccg caccgtgccc tacgtcgccg tcgtgtacga 180
gcaggtcttg acccgcaccc gccagctcgc ctccctcaac ccggtgcccc gcgccccctg 240
aaaccatacg gacacgggtg ggccgaagcg accacgacga tgttctccgt caattacgtg 300
tcgagctaata cttattattg gttctattat tataataatg cttctccctg ttcctatgga 360
cctatagtag tataactagta tgttgcgagg gagcagt 397

<210> 32323
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H4

<400> 32323

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acgcagggtgc agtcgctcgg gctgcgcttc caccgactca tggcgctccc cgccgactgc 120
aacctcccca actccaacgt ctgctctgct atcaccctgc tgaacctgaa gccaggctct 180
gcggactacg ccctcttcgc caacgcctcc aagatcacgc cgtcagccgg cggcaaccct 240
gcgagcgaca gcgccgcggg cagcggcgctc aagttccggg ctgggggtcag cggcggcgctc 300
gcgcttcgcc gggtc 315

<210> 32324
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H5

<400> 32324

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tgcccgacta gcagcaagtc atgtccttga tgaactaccg tctctacgtc gacgcctacg 120
accccgacgg ccgcaccgtg ccttacattg acgtggtgta cgagcagttc tggacccgca 180
ccaccagat taactttctt aaccgggtgc tctgagctcc ctgaaaccat actgaca 237

<210> 32325

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H7

<400> 32325

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aatggtgacg ctggcggttc catggaaatc tggccacctg tatgctatca tcaccttcgg 120
cgcgctggtc ttctggactt catttgccgg gagacaggac agcttcttga tggatcaaga 180
cgtcctacgt caacaagaat gagagggagc acgaactgag cagaaggaag cggtagtgcc 240
actggtgcaa gctcggcggc tcaccgtcaa gacgaacgat tacagcagct atgacccttc 300
cccgtccatg gacaagccac actccaagct cataccgaac tgatcaatca tgtacgcgtc 360
caggttgacg cagcggagtt gccgatgagg aattaacagc ttaaatgtgt gc 412

<210> 32326

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-F6

<400> 32326

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tgaagaagca ggagctgcag tagctgcgga atcttctact ggtacatgga caactgtttg 180
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tcctggggac ccaaataat atatctgtta tgtagc 276

<210> 32327
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-H9

<400> 32327

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gtcgatcgct tcttcgccgc actggaaggc cccgaactcg acaagctcaa gacgtctgag 180
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ttcggatatc gcctgggcgt gagcagccag gcgatcctgt ggaagacgat cgcgtcgtcg 300
tcgccgacca cgttctctga cgtatcccac aaggtgaacc tgggtgctctg gtgcatctcc 360
gtgctgetca tgtgcgccat cacggccgtc tcgcgtcaa gct 403
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<210> 32328
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-046-Q1-K1-A1

<400> 32328

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agagtcaaca gaagaaacta agcaaaacat agctgagaat attgcagaag tctctgatgt 180
ggcgattgtt gatgacgcaa ttgaacagaa tgtgctacag actgaggata tcgttgaaat 240
gcataaacag gagctggaac gagaagaaac agagagaata gaacctgttg aatcagagga 300
agcttctgat cagaggaatg atgcaccatt cgattattca gctcgagaag ataatacata 360
ggaaagtgag atacagcaga cagaatcagc aacgganaca aatgaaattg aaccactga 420
aattgaagca gttcctcgag aaaagcat 448
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<210> 32329
 <211> 351

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-A10

 <400> 32329

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 gcttcccgcg cgacgcccg cgcggtcgg cgagcgccca ccagcccag gaggtgaaga 180
 cccggctccc cgccgtggag tacgcccagc tcttgccga gcagcagccg tcgcccgcca 240
 cccacgcggc ctgcatcgtt tgcttgaca cgctggaggc ggcgagcag gtgcggcggc 300
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<210> 32330
 <211> 67
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-A12

 <400> 32330

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 atcgcgga 67

<210> 32331
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-A2

 <400> 32331

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 cagagtcaac agaagatact aagcaaagca tagctgagaa tattgcagaa gtctctgatg 180
 tggcgattgt tgatgacgca attgaacaga atgtgtctaca gactgatgat atcgttcaaa 240
 tgcataaaca ggagctggaa cgagaagaaa cagacagaat agaacctgtt gaatcagagg 300
 aagcttctga tcagagtaat gatgcaccat tcgattattc agctcgaga 349

<210> 32332
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-A5

<400> 32332

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ttcctgcata ggttgctaca cgtatatatt ctgaagaaga gatcgagatg accagcgtgt 120
ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
cagctgcagg cttcttgaag tccttcaaca aggaggagat tgacaaggag attgaggaca 240
agaagacaga gctggagccc aaggctcgtgg aggcctacga agcatctcct cctgagggtca 300
aggctctgtt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
ccaagttcct cgatgagctg gctaagattg acttccttgg agccaagggtg gtgagcgagg 420
cggtggccaa gtccggcacc tcgcccctgc ttccggcgat c 461

<210> 32333
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-045-Q1-K1-B2

<400> 32333

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gttatcaagc tcaaggagat cgtcacctgc ccaggcccag agcgggacga gcaaggggaag 120
ccaattgacg gtaacaagta caaggggagc atttacctgg ttttcgagta tatggaccat 180
gatctcaccg ggcttgctga tcggccagga atgcggttca ctgtgccga gattaagtgt 240
tacatgagggc agctgcttac aggcctgcac tattgtcatg tcaaccaagt tctgcatcga 300
gatatcaaag gatctaacct tttgatagac aatgaaggta acttgaagct tgctgatttt 360
ggccttgcaa gatcattctc gagtgatcac aatggcaacc ttactaaccg tgtgatcact 420
ttgggtat 428

<210> 32334
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-B5

 <400> 32334

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 agcgccgtag cgcttggtat gagcctggtg gagaagcaat ggctagtaca cggtgctcat 180
 acttcagcgc tgcagcgctt ggtactcgga ccttgggtcg aggcattttc tctacgccta 240
 cttaccttga aaaagcaggg tcacctcgtg tccttaaacc tattactcat tgctcggttaa 300
 cctaacctgc gccggacctc cgtccaaca atgggtagta caggaatat 349

<210> 32335
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-B7

 <400> 32335

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 gattatattt tataaaaaaaaa atataatata tatataaaaa taattaaata ataataaaat 120
 atattatata ttaaataataa tttttttttt tttcttttta tttttaaaat tttttatttt 180
 ttaaactcat ttttatcttt ttattaattt tttttttata atatattttt ttttttttct 240
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 tattttatat tttttattct tttttatttt tttatttttt aatattttta ttttttatct 360
 ttttattttc tttttttttt taatattatt tttttataat ttttattaaa acctcattat 420
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<210> 32336
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B8

<400> 32336

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cgagggtgcca gcggaggtcc cggcgcccca ggtggccgag gcgccaagg cgaagaaggc 120
gccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
gcacctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaagg agaggaaggg 240
gtcgagctcg gtggccatca gcaagtacgt cgaggggaag catggcggca agtccccac 300
caacttcgc aagcagctca ctgtgcagct gaagaagc 338

<210> 32337

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C4

<400> 32337

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cgcaccgcca ctgctccca ctctctctcg gggcgccgc cctcgccctc gccgccgtac 120
ctgctcgcg gcgctgggc ggcgggcgc gcccgtgct gggcgggtgg aaccgatcc 180
ctgacgtgag cgactcgac atccaggagc taagcgggtg ggcgctggg caagcgaagc 240
accacaagct ggccgccgac gggctgcgga tccgccgcgt ggtgcgcggc gagcaacatg 300
tcgtgtccgg gatgaacta 319

<210> 32338

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-C6

<400> 32338

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actccctggc acggatgttc ttcgccaaga cgttcgggat ggtgtcactg atggacgaca 120
ctttcgatgt ccatgctact ctagacgagt gtcacaagct caaagaagct atgcagagat 180

gggatgaaag tgaggtc

197

<210> 32339
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-C8

<400> 32339

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tccggcccct ggcgaggctc ggtgccttgt gagcgcaaaa gggaggggct ggtgcgccccg 120
ctatccgacc tctactggaat atagtaaaat acacgtctaa aagtaagtgg tattttcact 180
tttgcgccccg gaggttccc aactctatac ctacacctct caaagtcagt ttcacaanag 240
tccggactta gaagtcaaag cttcaacagg nngtcttct 279

<210> 32340
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D1

<400> 32340

gccaaacatt aagcccataa gatggcttta ccataggcaa cagaagctgt ctagggtgt 60
catattgtga aggtttgggt ccgcactgga catcttcagc aactaacctt gtaacttgcg 120
agttgacggc cc 132

<210> 32341
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D12

<400> 32341

cggcccgacc cagcatcct ccgactcggt ctcaaacaca tattctttta ctaaccacac 60

<210> 32342

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D2

 <400> 32342

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 gccgccccag ccgtgctgcg gcggcatcct cagcctgctg cagcaggcca acaacacccc 120
 cgaccgccgc accatctgcg ggtgcctcaa gaacgtcgcc aacggcgcca acgggagcgg 180
 cacctacatc agccgcgccc ccgcgctgcc cagcaagtgc ggcgtcgccc tgccgtacaa 240
 gatcagcacc aacgttaact gcaacacgat tgattaaatg aagcgtcctg tgcgcgtccg 300
 ggcgaggaat gcatgcatgg cggagagtaa taaagtaatg ctgctggtat tttaagct 358

<210> 32343
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D5

 <400> 32343

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 cgacggggca cgcggcgtcg ccctcgtaca cctgctgcgg cgacgccggc gacacggaga 120
 aggcgcgccc cgagtgcctc tgctacatca tccagcagac gcacacgggg cgcaaccagg 180
 tgcagtcgct cgggctgcgc ttcgaccgac tcatggcgct ccccgccgcc tgcaacctcc 240
 ccaactccaa cgtctcgctc tgcataccc tgctgaacct gaagccaggc tctgcggact 300
 acgcc 306

<210> 32344
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-D8

 <400> 32344

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gaacttgctc ggccctgcaa ccttggaag gttaagggag cacttgacaa atccagcaac 120
 agttccagca acttgcgatt cgtaacccaa gcttagccag ccaagctggt cagatggcac 180
 cagcgtcaag caaatctgtt aggttcccat tgcgccttg caagggtag catgggtcca 240
 ggtgcattgt gaaggcaaat catttctttg ctgagctgcc taataaagac cttcaccaat 300
 acgatgtatc aataacaccc gaggttactt cacgcggcgt caatcgtgct gtcatggcag 360
 agctagtaaa actttacaga cactcccatt tggatgggcg 400

<210> 32345
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D9

<400> 32345
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 gtctcacttg ctctatattc ttaaaagctg ctagcgatgt gtatcatctt tattggttct 120
 tgacacctct aagctgctca tttttagtg ggatctggtg ggcacttga aaggcttgat 180
 aacctaatga gcatggatga ccgaaatatt tttctttgga acgtagacat gtcaaataaa 240
 tcagctaagg tgatctcaca gggatcagct gacatgcttc caaatttgag tgggtggggct 300
 tgggatccac acaatcataa ttcaattgct tcaatatctg attcatcact tcatttgtgg 360
 gatctacgtt ctatggaaaa atcatctgca attgaaatgc acatatacgg gatgtggatt 420
 ataaccceaa aaagca 436

<210> 32346
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-E10

<400> 32346
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 ggggtactcat acatgcaaac aaataaacta aactataaag acacctaaat ataaatttaa 120
 tgtaacaaaa attaacggcc ttctcttttt taaaaaccct gccttttcct ccacttgaa 180

taccccttgc aacacatttc ttcttttggc cacctaactt aattgccatg agccccgttc 240
 tacacgcctt tcccaacaaa acccctgcct taaccaaaaa taagaccctc cctgtaaattg 300
 cccttt 306

<210> 32347

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B12

<400> 32347

gagaagagag gtcccgagg gaagaaatca agctgcaaga tatccaaagg agatgggttg 60
 catctaaccg atgggctgaa gctgccaggt ttgcgcttgc tagaagcctc acatcatcac 120
 atagtgcctt ccttgcatta gaagctgccg agggaaataa tattctgagg agaacaaagg 180
 atgctgtaat cactctgcaa agcgtactgg aagggaagca caatactgaa atcgatgaat 240
 ctctaactca gtatcaggtc ccagctgacg gatgggtggc ttacttttac aaagtgatcg 300
 aaagcctcgc cacaatgagc agattggggc gcaaccgtct gcagcaacct tcttataatt 360
 ttgagaacaa caattctatt gactgggcca aatgtagatg tagaattctg gatcacaac 419

<210> 32348

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-E8

<400> 32348

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 atgggataat ttcttaaaag tattaacctt tcccaagggt gtgggtcccc ttcttacggg 120
 tcagtgggat ctttatgccc aaaaaactga ttcgagtaat cattttattg gtaccactca 180
 aagagcggga actgccattc tgacccttct tgggggattc catccacaaa cacaaaattt 240
 gtggctgacc gatattgctc atcatcattt agctattgca tttatttttc tcattgccgg 300
 tcatatgtat cgaactaact tcggaattgg gcacagtatc aaagatcttt taaaagcaca 360
 tactcctcgg ggg 373

<210> 32349
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F10

 <400> 32349

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 gcctttcttcg ctgtgcccg cgcgccgag cagtgcgggt cgcaggccgg cggcgcgctg 120
 tgccccaact gcctgtgctg cagccagttc ggggtggtgcg gcagcacctc cgactactgc 180
 ggcagcgggt gccagagcca gtgcagcggc agctgcggca gcaccccgaa cccgccgagc 240
 agcggcggcg tggcgcccat catccccgag tcgctcttca accagatgct gctgcaccgc 300
 aacgacggcg cgtgccccgc caacggcttc tacacctacg cgggc 345

<210> 32350
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F5

 <400> 32350

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 cgagtcgctc ctcccgaagt tcctctacgg ctctcggcg cgctctttcg ctgccacagg 120
 agccgccgcg cgctccctg tctctctccc ggcgcctgcc gcggctggag catgaggcgg 180
 cgtgccgttc tcgatccagg cgccaagga gaagatcgag atgtactcgc cggccttcta 240
 tgccgcctgc actgccggag gaatcgccag ctgcgggctc acccacatgg ccgtcacgcc 300
 tctcgacctc gtcaagtga atatgcagat tgaccaacg aaatacaaga atatctcatc 360
 tggatttggt 370

<210> 32351
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-G11

<400> 32351

gtcctcccc cgcgagcggc gtgcatctca ccgctgctgc cagcgcggcg tgcgaactaa 60

cgctagtccc gggggggccag cggcgcgacc agcgggtgcag ccaaactcag gaaggagtag 120

ggcagtggcg cggccagcat ctccacggcg cacgggtgct accagttcag taggcaggcg 180

agaggaacgc ggtgctgcga cggctcggcc gctcggcgcc tctgctgc tgcgcagtct 240

gtataagcgc agagcagcag agcagacaac actcagctac aacaggaagc cacatggtgt 300

tgaatgctgn tatctgttag actttctgag taggctaggt tagataagat atcattgttt 360

ttgacaaaaa attctgggtt caggatcaag atgagtagaa aaatatatgg tgaaaatgac 420

tctgagagaa ttgctagtga tgggacagc 449

<210> 32352

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G12

<400> 32352

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gcttaatcta ttccggcaga aggggacgac cacagggtcca gcacaatcga gcacaaactt 120

cagaaccaat cctttttacca tattttacgga tcaacttttgc taacttttca ttactacatc 180

gatacaaacg ccatactctg accacttttg agacctgatc ctgctacgag ctccacactc 240

tgtataaccg cataccatca taccaaacat cactgacctc caacagcaca ccacatactg 300

ttcaatgctc gtatctgtta cactctctta atacgatatg ttacataaca cattataggt 360

tttgacaaaa attctgcatt caagatcaat attactttta aaatata 407

<210> 32353

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-G3

<400> 32353

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 aaaaaaaaaa aaaagggcaa cgggacgggg ggaacaaaaa caggacggac ccacacaaac 120
 aacaaaaaaaa aaacaagggg cggcccccca aaaggaacca aaccgcccgc cccgggacaa 180
 caacngaac agggaaaacc cgggcccccc aaaacaaaaa caccggccgg cgcancccaa 240
 cgncgccacc gggaaaacca ggagaaagcc cccacacaaa ccccgaacc aaaacccccg 300
 caaccgaag ggcgaaaaag acacgcccc 330

<210> 32354
 <211> 301
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-G6

<400> 32354
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 cagcgaagcn cggagacgga gagcngaagc cngcaggcaa gcggaagnnc aacaccaagg 120
 aagaggagcc agaacagnac nggcagaccg cgggggagag ggagggggag aaccccanga 180
 ngacaccccn gcccnacanc ancancnncg gcagggccac ccccnncgac aaccgcgcca 240
 acgccnncgc caaaggcngg aacaaggnc cngngcgaag accgnaacgc gancagccag 300
 c 301

<210> 32355
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G8

<400> 32355
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 gtgccgccgg cggccaccac catcactgcc atgatcagca tcctcgcgca ggagcgctc 120
 ctcggttcg ccttgggttc cgtctccatg ggcggcttcg tcctccacca gcgccgggcc 180
 atctaccgtt caatcgctga agccgacggg tcgccctact ttaccagcc tggtgaaatt 240
 gccagtcgaa gaagctcaac tgaactggct catgtatgga acaaggcagt ggacgagacc 300

cttgggcgac ttgttgtgta ccttagttcg cgtgggtggt gattcaagct ccatgttgaa 360
catggtaacc gaggaagact ctttttcaag ccactgatgt gctcatactc gataacttccc 420
tggtccccgg atgaacaagt ttttaatt 448

<210> 32356
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G9

<400> 32356

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ggaggcaccc aagcgcgact cgagtgaggg gcagtaaagc cggctttatg tgcctagaaa 120
ctagtagcta gtgtttgctg ctgtcgaatg acactatgca atgtgatctg gaacctggtt 180
tcttgggtgc gacgcttggt atgactgtcg tcagtaaaat ttgggggctc cccgtatgag 240
atgctgccgg gcaaggcctc ggtgtccac ctcgtttgtg gcggggggcg ctggagcccg 300
gtctggttgg gttgggaagc cctttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aataaaaaaa aagggggggc c 461

<210> 32357
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H1

<400> 32357

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gaannggaan gagnacaanc gagaggccnn aacgagganc cannggaggg caagnncngn 120
gccagcagcc gcggnaannc cagcnccaan agcgnanann naagnngnng cagnnaaaaa 180
gcncgnagnn ggaccnnggg ccgggccggc cggncgccn cacggcgaga accgaccggc 240
ncgaccnnc ngccggcgaa gcgcncngg ccnaacngg ccgggncgng ccnccggcgc 300

cgnnacnang aagaaannag agngcncaaa gcaagcc

337

<210> 32358

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H11

<400> 32358

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ggactggaga aggatgctta gtaaaaaagg agaaatcctc actaaggagt tagctgagct 120

tctagagttg gtgaggttga aagaagcaga gatagctgaa aacaatgccc ggatccatga 180

agttcaagaa agaatcagtg cagtgggtctc cagattccat ggttctcagt cagatattga 240

cttgaagctc agttccttga aggaagacca aagtaaagtg gatctagaga ctgaagcact 300

tttgttgaag aagaatgaaa ttgataagtt cattacttta acagatcaaa aggattcaga 360

gttgagggac ataattgggtg cttgttcctc tgaagcanaa gcttgtcgac aatcagttga 420

aataagaaga aagcttgcat catcgatctt g 451

<210> 32359

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-H3

<400> 32359

ccgggcccgc cccgcgtccg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aggaggggga aaaaaaaaaa ggggggaggg 110

<210> 32360

<211> 225

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-H5

<400> 32360

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 aaaaaaaaaa aaaaaaagga aggagaaaaa aaaaaaagag gaagggggcg gacggccnag 120
 gggaacaaag ganacanacg cgggcaggcg aggaaaaaac ncaaaaaagg gggcaccgaa 180
 acacaaaaaa cgggccgacg ggcaacaacg aaaaaacggg gaaaa 225

<210> 32361

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-H9

<400> 32361

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 agaaaccctt gctctctctt cgcgttgagg gtccagtttc cttgtcctcg actccttcca 120
 tgtctcccaa ggacaagctc aagctcaaac ggttggcccc aggccaagtg gagctctcct 180
 cacaggcggg ggcaatccct gctatcaccg aagacgagga tgaaccacat aaccctggat 240
 tgtggcctct tttgtctctg aatggttcag atggcagcct gcagggggtt gaggagctat 300
 tggcctcagt acttggaag aaggcaggcg agaagggtac cttcaagcta ctgaaggcac 360
 gggcctcggc tcaaacctat gtcaagatgg cattcacggg ggagaagaag cttgctgaag 420
 gggatgtgaa ctgggtcaaat attccagaat ggaa 454

<210> 32362

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A10

<400> 32362

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 cgttgactgc accaacgaac gggcctgcaa caactgccgt cagccagggc acatagctcg 120
 ggagtgaag aacgacccgg tctgcaacct gtgcaatgtc tctggccacg tcgcgcgcgt 180
 ctgcccacaa acgactctgg cttcagtgat acagggcggc ccgttccgag atatcctgtg 240
 ccgcatctgc ggtcagccgg ggcacatcag ccgcaactgc atggcgacca ttatctgcga 300

cacatgcggt gggagggggc acatgtctta tgagtgcctt tcggc 345

<210> 32363
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A2

<400> 32363

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tctatgcata ttccaggtcc acagatacgt ggaaggtctt tggtgggcta tgagatacta 120
ctatcaacgt gtttgttcat ggcagtggta tgtaaatt gaccatctac tgtgagaatt 180
tgctatcgca ttttctgtgg cagataaaac atcacttgat tgagtgtgaa agtattattc 240
ttcacttttt ttgcaaagcg caggagaact gcgcattcatt a 281

<210> 32364
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-A3

<400> 32364

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gccggcagcg cgtggcgctt cgccatcctc ttggtgctcc tggcggcgtc accgctgctt 120
ggcgcgacgc agaaggccgc gccagggccg gcgtcgctgt cgggctcggg cgcgggcgcg 180
gcggacgcgg cgccgccgac ggacgtgaac aaggcgctga aggacgagca gttcagcgag 240
ttccggcagc tgctgcacga cgcgcgctg gacacgcaga tcaacgcgca gctgacggac 300
agctacaacg ggctgaccat tatggcgccc accaaccgctg tctttgacaa gatgaaggcg 360
ggcgtgctg 369

<210> 32365
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A6

<400> 32365

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cgcgaacaaa cccaacatta ccggactgga cagggccatc ctcaccctga agacgcaccg 180

ccgcaagctc gccagttcc agcaacagct tgagaaggta attgaagcaa aaaaggaagc 240

tgcactgcaa ttgggttcaac agaagaagag agacagagct ttgattgcac tgaataagaa 300

caaagctcag gaagagctgt tgaacaatg tgacacatgg caaatgaatg ttgaacaaca 360

gc 362

<210> 32366

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A8

<400> 32366

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cgagggccgc agcagcggtg tctcccgtct ggagtcgctg gtcaccggac gcggagccaa 180

catgcgcgtg acaaagagcg gtcgcgggg cgtttgtttg gagggcgtgt cgcgcggggc 240

ctctgaggcg cggctggcag tggccgcgga gatc 274

<210> 32367

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-A9

<400> 32367

cccacgcgtc cgacaaacct tatatgcaca cgtaagctga cgagttcgag gacgcgtggg 60

gtcacacgtc tgtaacaacc ttgatcttca gtgaaggatt cgagttgtat cactccatgc 120

gagaccctaa agaagagcaa ctatg 145

<210> 32368
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-G1

<400> 32368

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tgatgctggt gttgcatggt acttgtatcc aaggcttggg tacctccctt atgttagcac 120
aactgaggaa acagctatct cttcattgaa gaggtcgctt ggtgctctga acacacacct 180
tgectcaaac acataccttg ttgggcatgc tgttactcta gctgacattg tattgacatg 240
caacctctac catggaattg cacggatctt gaccaagacc ttacagctctg atttccctca 300
tgtcgagagg tatttctgga ccatgggtta ccagcctaac ttcaagaaag tcattggtga 360
ggtcaagcan gcagagtctg cacc 384

<210> 32369
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-B1

<400> 32369

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ggccatctac atcaaccggg tgcagctcaa gtgctgcaca caactgcaac ttctccttgt 120
cggggctcta cacctgcgac gacatcaaaa agcgactgcc acccgtctg caagaagtgc 180
gtctgtcgtc gtgcacgcgt actactatgg caacaacaag atcagggtgca ccgacacctt 240
ccgtggcatg agcggcccca actgcttgat catagatgaa gaac 284

<210> 32370
<211> 262
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-D7

<400> 32370

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gagcacnagc agccgcccgg aaaccaccag aacagcgcca acaaggcccc cgcncncgg 120
caacaagccg cccagacgga caccgcccgc ccccgcaac cgaaagccag cgccggcgac 180
gccacggaga agcngcngcc cgccgncgca gccgagggcc ccaccagggg ggggccagac 240
accaagacga ggggaaagaa ga 262

<210> 32371
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D8

<400> 32371

cgcccggaat cccggtcgcc caccggtccg gtcgccaaagc cagcctggtg tgcgttcgat 60
cgctttgtgc actaggggtt agagggtttc tgggcgcgga gcggcggcgg cgccggcggc 120
ggctatggct gcggcgagg aggagatcgc ggtgaaggag ccgctggatc tgatacgct 180
cacctcgacg agcgcatcta cgtcaagctc cgatccgacc gcgagctgcg cggcaagctc 240
catgcgtatg atcaacattt aaacatgata cttggagatg ttgaagaggt cgtgacaact 300
gttgagatag atgatgaaac atatgaagaa attgtgcgca ccacgaaacg cactatcccc 360
ttcctttttg tccgaagtga tgggtgcata 390

<210> 32372
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E10

<400> 32372

ctggcggtgcc tgctggccat cttctcacag aagagcgcat ccagcggccca agacaaggag 60
cgggtgtcgc cgcggtcggc ctccggtcc tgcggaagca gctcagcaga cccctactgt 120
gtcccagaat tcgggtggcg ggacgttggc cagtacaagc agttcctgtc agtcgacacg 180
aacatttctg ccggcgacga ctccgctctt gaccagagac tgaaggcgct gctcaggaag 240

ctctcttttg ttgacctagc aggcctctcc caccagcata ataggctggc gttctggatc 300
aacacctact actcctgcat gatgaacgca tttctcgagc agggagcgcc tagcgacccc 360
cgtatgctgg tggccatgat gcccaaggcg accatcaacg tngcgggcg cgtgctgagc 420
gccgtggcga tcgagcactt cattc 445

<210> 32373
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-E11

<400> 32373

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gtgcgccggg acggtcaacc tggaggagcg gcagaggccc gtctacgacg aggaaagctg 120
gaccgacgtc gacttctgcc gtcgctcaa gatgaccgga tggatgtact tcgtgtctaa 180
aaccctggcg gagaaggcg ccctggcgta cgcggcggag cacggcctgg acctggtcac 240
catcatcccg acgctcgtgg tcggcccggt catcagcgcg ttcatgccag ccagcctcat 300
caccgtgctg gcgctcatca cggggaacgc gctccactac tcgacacctca agcaggtgca 360
gctcatccac ctcgacgacc tctgcgacgc cgagatcttc ctcttcgaga acctcgccgc 420
ggccggggcg tacgtctgct cctcgcacga cgtcacccat 459

<210> 32374
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E12

<400> 32374

cccacgcgtc cggtaccgcg gccctaaac cctttctctc gttccctcc gtctctcagt 60
gaggcacaat gatgctagct aataagcttg gtggtctgct caagaatgct acgagttcaa 120
atatgtctgt ctaccaagca atcagatgca tgtcatcatc caagcttttt gttggagggc 180
tttcttatgg aaccgatgat cacagtctca gagacgagtt tgccaaatat ggacaagtta 240
ttgaagctaa gattatcctt gatcgtgagt ctgggaggtc ccagaggttt ggctttataa 300

cttacacgtc ttctgaggag gcttcngctg ccatcactgc catggatgga aagactctgg 360
atggacggaa catacgggtt aatcatgcta acgagaggac aggtgg 406

<210> 32375
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E4

<400> 32375

cggacccagg gagaacaaag agaggcagca ccagctacag gngnatnnnc accnnncnncg 60
gcaagagact ngaccacaat attggcacct atgcttgctc caacagtga tagtggagcc 120
ttaggatact cttgatgaag gaaactaaca acttcacgca tatctgccgt ccacccggca 180
ttgtaaaagc aatcagatgt tatggagatg ccaccaagac ccctgtggtt gcttacaaca 240
acattccatc ctttgattgc catagaaaag accaagtgtc tcacataagc agcactagaa 300
tcactagtta atccaggtat cacaacaaga aggggtgttg aatcatcctt agaaatggtt 360
ccgtcagaag tgccaatatt tccatcttca aaatcagaag ctagtaacca atctaaggca 420
at 422

<210> 32376
<211> 244
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-E6

<400> 32376

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ccaacgacgc ccaagccgac cccaccgacg nacacgcccc cccccaagcc accgacacca 120
aagccgaccc cggcgacgaa cacaccaagc ccaacgccac cggcgaccaa gccgagcacg 180
cccaagccag agcccgccaa cgaacacccc cccgccaag cgcgcnacac ccaagccgac 240
cccg 244

<210> 32377
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-E7

 <400> 32377

 ggagagaata acgcagagct ctctgtctccc ggctgtctt ctgccgtccc ggccgttttag 60
 tttactagtg tgttcgtcct atatgttttag cagcagcagg tgtattgtgc gggatatgtaa 120
 tggatttgca actatatattgg gtgtaaaacc ataataaatg tgggcaaata tgcaaggaaa 180
 aaaaaaaaaa aaaaaaaaaa aacaaaaaca aaaaaaaaaa aacaaaagg 229

<210> 32378
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-E8

 <400> 32378

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gaaagaaaaa aaaaaaaaaa aaaaaggaaa 120
 aaaaaaaaaa aggggggggc gcccaagagg acccaagcna acgaacgcgg gcaggcgacg 180
 acaaagcccn caaaagggg caccaaaanc aaaagcacgg gccggcgnnn aaaaacgccg 240
 ggacggggaa aaccggggg gaaccgaaga gaagcgccg gaagcacacc cccnnncgc 300
 cagcggggga aaaagcgaaa aggccggcac cgaccggccn nccaacaan ggcccagccg 360
 gaagggcgaa ggggacgcgc ccgganacgg cgcaaaaagc gcggcggg 408

<210> 32379
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-E9

 <400> 32379

 tgttgacgtg tgtggaacta gttaatctgt agacttatat cgtcatgtgt tcaactggtg 60

gggcacacat atttagcact ggtgttaaatt ggaaatagtg agtgatatga tcctcggaag 120
catatcacgc aaaaacaaga aatggtacat ggtgtacatc cttgactgga tgattttttg 180
atgtcatata cagcgogaag tcttcttcct gcgagacaaa aagctatatg acgttcagac 240
aacatggtgc tgcaagatat aacataagat cattgcttgt tcaaaaaaaaa accatagatc 300
caattataat tccgaaaaaa aagatactgt ttgccagatt aaaatagtct acattgatcc 360
attggaaaaa aaggctcgtca catttaaaac atccaaactt 400

<210> 32380
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F12

<400> 32380

cgccgccggc ctgcgccgcc gcgccatcgt ccaggtctcc tacgccatcg gcgtgcccga 60
ggccctatcg gtgttcgtgg acacgtaccg gaacggggcc aatcccgaca aggggatacc 120
tgagaatgcg aaaggagaac ttgaatctaa ggcccgggtgt gaacataatc aacctagacc 180
tcaagaaagg cggaacggg ctctacctaa agacgggggt ctacggacac tttgagaggc 240
acgaccgaga cttcacctga gaggtggtga agccccctcaa ggcggaaaag ccgtcttctg 300
catgaggcgc ctctctgtt tcagaagaag cttttggtct ggtctgcctg cgctctatca 360
tgctttatta tggctcctac gtgttgatgat tcttgatctg ccccttgctt atcatttgta 420
ctgtactgtc actgtcctaa taagtgttac gtgtgc 456

<210> 32381
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F2

<400> 32381

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actagatcaa ggtgctggct gcctcattat ctttgaggat tctaagacgg aggatatctt 120
ccctgccact ctcgaaacca tttcgaatgt cggaagggtt gtggacagcc tttatgtgag 180

ggcggccaag atcatggctt gaaagcagct agtcttacct gtttgctctg atttcatttc 240
cagtctgtcg atgtcctcag acatttattc cttcaatatt gacagtttat tgtgaccgct 300
acaggttcat gtgaccaaag gctagctatt tttagcactg aatgagttat gcatgtattg 360
gtcttttaat aaaaaaaaaa aaaaaaaggc cgggc 395

<210> 32382

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-F3

<400> 32382

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gggctgctag agctggacta aagaagggtc cttgggatgg ctatctgaaa cacaaccgct 120
ctagtcccaa acacactgaa gagaaacaac gcatatttgc cgaatctgtc ttgatgagac 180
tggaggagaa atgaagggac gtcaagccgt acaagtgcac ttcgttaggg ttttacatgc 240
agctaccttg taattcgggt ggcttccagg aaaaaaaaag tgagcctggg acacgtcaag 300
tgaccacctc agttttgttg taaatttggt actagtttga taggattatt agtatgtgct 360
tatcaggaaa agaattctca gtatgtgttt tggctgcca ttcaatgaat ggtcagtga 420
taacaccg 428

<210> 32383

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F4

<400> 32383

cccacgcgnc cgcccacgca gacggaccca cgcgncgcg gacgcgaggg caagcacagg 60
ggcaggcnan caanggcggc ggagggngnc cccccaagcg acaccgagcc accaaaggca 120
caagccgaca naaggcgga cagccacacc aaccacacgc ccagncacn gaggagcgcc 180
gnggagcnag gcaacccac ggccaacaac cgccaaggcg gggcngccnc agccgcagag 240
ccggacacgg cgcngncncn cccnccacg aaacagccga gccaccgccg gcagcngcgg 300

caacaagccg cggcggggcgg gggcaccgnc gacaagcaga gcacggagga agagcgg 357

<210> 32384

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F6

<400> 32384

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nangacaccg ngcggancnn nnaacagang ngccgccccca gccaaacncc ccaccngaca 120

angncnnccg cccggancgg cccggcgagg cggggccnng gagccaaaag gaggggcggn 180

gccccgcnnc cgaccacgg aanaagnaana anaacgnnaa aagnagnggg aggnacnng 240

cgcccgagg cncacacna nccnacaccn cncaagnan nncacaaagn cggaccagag 300

ncaagcncaa cagggncnnn cnnnccccgc ggaaaccgcc aagccc 346

<210> 32385

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F7

<400> 32385

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gaaacccacg aggacggccc gagaaacggc gagcgaaccg ggagcagacc agccggagaa 120

ncgggcgggc ncgccgccc aaaaggagnc cggagaggcg gcccagcga cggaccgggc 180

ccaaggaccc cggaaggga cgccaggag ggngagagcc ccgcccggcc cagaccagg 240

cgcaccacga ggcgccgga acgaggcagg gcgccggga acgcagccca aaccgggcgc 300

gaaaccccg ccaaggcnaa aaacaggcga gagacacgaa gcgaacaagn accgcgagg 360

aaagaagaaa aggacgnnga aaagag 386

<210> 32386

<211> 345

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-D6

 <400> 32386

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 gacacctaag ccgaccccg cgcgtacac tccaagcccc aaaccttcga cgcccaagcc 120
 gacccacccg acgtacaccc cttcccccaa gcctccgaca cctaagccga ccccgctac 180
 gtacactcca agccctaagc caccgggtac caagccttcc acgccaagc cggccccgnc 240
 aacgtacacc ctttcgcaa agccttcgac acccaagccg acccgccga cgtacacccc 300
 gtcttccaag ctttcgacgc ccaagccgac cccgcccgcg tacac 345

<210> 32387
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-F9

 <400> 32387

 cggacgcgtg ggcggacgcg tgggaggacg cgtgggaggga cgcgtgggag gacgcgtggg 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggacaga caatataaaa a 111

<210> 32388
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-A8

 <400> 32388

 cttttattct caaagcgttg ataaaaagct ttctcttcat ctgtatattt tattgttaat 60
 gaaagaaata aaccactata tatttcgac 89

<210> 32389
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-B1

<400> 32389

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gcagcccanc nagagaaggg ggcggccnca ccgcccgaca agaanacagg agaggcgacc 120
acagcgacag accggggccca agagcacggg aaagggacgc cagggagggg gagagcccca 180
gccggcccgg acccngacga accacgaggc gccagcaacc aaccggggcg accgggaacg 240
caccclaaaa acagcgagna acaccggca aggc 274

<210> 32390
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B10

<400> 32390

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ggttcggtaa agactttgcc gagtgtagct ctcggtgaac tgtatatata atatcatgac 120
atgtcgataa agttcatgat tttctgactt cgtttgttgt ttatacaatt ttaaaactac 180
tagatctcaa gttcacattc atgttttgtg accatgatac tcaaaaattc tggctctgttt 240
ttaaaatagg tcgtaaaactg tgctaaaata acataaatat cattttttgc attcactgtt 300
ttctatTTTT tgagtgactt acaattcaaa tatgaattat ctgaagaaat tcaattaaaa 360
gaactaaata taatagctat agctaact ttgataatta tgtcaagatg gaacatgtat 420
ctctatatag tgtaagaaca tagtagaaaa aatttgct 458

<210> 32391
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-044-Q1-K1-B2

<400> 32391

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agcgggagcc cacacaagan ccaacgggaa aagccaanga ngagaggcan cgggggcgca 120
acgcccgcga ccaaaacaca aacacnaaac aggnaggacc gcccggcngc cncggagagc 180
ccggccacgg aaccaggagc cccaaggggg ccacaaaccg gcaagcagaa caggcgaagc 240
aggaagaacc ggaagccggg gnacggggcc aaacagcg 278

<210> 32392
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B4

<400> 32392

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ggccaccgtc gtcctcggcg tggccccgga gaagaaggcc gcgcccagat tcgtcgaggc 120
cgcgggcgag tccggcgagg ccgccacgg ctgcagctgc ggtggcaact gcaagtgcga 180
cccctgcaac tgctgatcac atcgatcgac gaccatggat atgattatta tctatctagc 240
ttgtggtggt ggttgaacaa taataagcga ggccgagctg gctgccatac ataggtattg 300
tgtggtgtgt gtgagagaga gagaaacaga gttcttcagt ttgctatctc tctctgcatg 360
tttggcgctc gtctttgtgc tcatgtacct acgtgtgtct acctg 405

<210> 32393
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B5

<400> 32393

cccacgcgtc cgcccacgcg tccgcgacg cgtccggcca cgcgtccgcc caccggtgcg 60
ggcacgcgtc cgcccacgcg tccgctagtt ctaatcgcg 100

<210> 32394
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-B6

<400> 32394

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gtactgatga ttcattcaagc tgcattatag acgaaccagg aagtcagcac aaagcagaaa 180

aagcagagat tgaagaggat gcgagtacaa acctcgctgg aagtgctgat gatctacctg 240

gtaatatcca tgatgatgag caaaagaaca tccctgaaca tgggtgctgaa atgacttctc 300

cagaagccaa atctgttctg aggttgcgga agacttctga ggaaggcaac aaggatgtca 360

agcaggagag ttggctcgag ccacacgtga gagcaccaat g 401

<210> 32395

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C11

<400> 32395

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gacgtgctta tctcagaca tgtccgatct gttgtaacag atgtcccggc ccagccgaac 120

tcagcacctg aactgtctt ccacgccgat atgacctgct agcgactgcc ttggagccta 180

aacgagtggc tgtgcaccgc ttgcgaccca cgtactgctg atataacgct gatgtactgg 240

tatttcaatc gtgcacagag gctccaactt atcctacaac tgtcacgtca tctgccaatg 300

tctgactaac gtcaacctga acatgatctg ccttaacggc tgattccgcc aaagca 356

<210> 32396

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C12

<400> 32396

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ggggttcttt cagcacatgt cggagatgtt cacacagatg cccacgcgca gccgatctcc 120

acatctgaca ataccttaca cgccgat 147

<210> 32397
 <211> 273
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-C3

<400> 32397

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gccagncgcc angggcgaga gggagancgg aancaacggc nncggaagga ncggcaggcn   60
cgnggccagg ggcgcccncc agagcgagga ngncgagccc gncgccgnca acgaccccn   120
cancaccacg gaccacanga ccnacaagnn caaggacgac accgnccacg gccaccggaa   180
gcacagcgac ancacacgca aggaccccaa gaccnncnc nncggngaca agccggncac   240
cgncnnnggc ancaggaacc cngaggaaaa ccc                                273
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<210> 32398
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C7

<400> 32398

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ggaggttagtc cttgggcaat acgatggcta caaggatgac cctacagtgc cagatgactc   120
gaatacccca acttttgcatt ctgttgttct tcgggtacac aatgaaagat ggggaaggtgt   180
tcctttcatt cttaaagctg gtaaagcatt gagttcaaag aaagcagaag ttcgggtgca   240
attcaaggat gttcctggtg acatttttag aagcaagaag caaggaagaa atgagtttgt   300
tatacgctc caaccatcag aagccatgta catgaaacta actgttaaga agcctggggt   360
agaaatggct actgaacaaa gtgaacttga tctgtcatat gggatgcggt accaaaatgt   420
caaa                                424
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<210> 32399
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-C8

<400> 32399

cccacgcgtc cgcccacgcg tccgtgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggaaa 60

gaaaaaaaaa aaaaaaaggg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaagg gggggccggtt aaaaaggaac aaagggttaac gaacccgaga atgcaaaaaa 180

aaaaatttgg tataggggtca ccaaaattaa attaacgggc cggggtttaa aaacggagaa 240

actggaaaaa cccgggcgaa accaaaataa atgggctgga agaaaaaac cttttcgcca 300

gttagcctaa tggcaaaaag gcccgaaaccg atcgc 335

<210> 32400

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D1

<400> 32400

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gnccgcnca cggcgagagc cgaccggcnc gaccnncng ccggcgaagc gcccngggc 120

anaacnggcc gggncnggcc nccggcgccg nnaccccgaa gaaannagag ngcncaaagc 180

aagccancgc ncgggagaca cnagcacggg aaaacancan aggannccgg cccacccggg 240

ggggccgncg ggaccggagn aangannaag agggacagnc gggggcaagc gaaaaacaca 300

gccagaggcg aaannncggg gaccagaaa gacgaacaac ngcgaaagca cccgccaagg 360

agggggnca 369

<210> 32401

<211> 405

<212> DNA

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<400> 32401

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cgctcatctt acgacacctg cggtatctgt caacagatgg gccgccccag ccatactgtc 120

cacctgacaa tgtatttcgc ccggatcgga ccgacgagga cgtgcctagt agcccatcgg 180
 agggtcggtg cccatcttcc gacccacggg ataagttaca tcaccgtaaa ggtagcggta 240
 tgtcacttac tgcccggagg ctcccaactca tcctacacct ctgaagttat tgcacatagt 300
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 cttggctgtg gcttcgctgg atagtataca tggtcagtgg gaatc 405

<210> 32402
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-D11

<400> 32402

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 aaatgactct actgcaaaat ctgatatgta tgctgctgtc tcttctgtct tggctccata 180
 tgtaagatca aaagcacata accctgatgt gtctgctgtt aagttaaag gcaatgggcc 240
 aagtttgac ggcatgtcc tgaccgataa tggcaccacc agtgaagagg gtctatctac 300
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<210> 32403
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D3

<400> 32403

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 gccnngcgnn gccgccggcg ggcgccgcaa gccngcgnng cccgcgggaa ccccgannng 180
 gagnnaacna acggaagnnn acaannganc aacaagacnn agnccaaccc nacgagacaa 240
 aacaccangg nnaccnncn caacagcngg gcaagcgnag aaaggcagac aaaangnnng 300

gcgcaaagaa ggaaagga

318

<210> 32404

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A7

<400> 32404

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tccaagagtg atacgaggtc tacaaaagag aatcctccta gcaaagatga agacccatt 120

gggattgatg caaagaagga taaaaggaag ggatctaaac aagaggtaaa gggccttgaa 180

gagcttgaag tccagagtgt ttctacaggt atcaccactt cgaaccctgg taaacttgaa 240

gtgccagacg gtaaggaaaa gaaaaagggtc aaggaagcta agacgaagaa atctgaagag 300

ccgtaccatg ccaataacag tagcttaaag aacaaagaag ttcaatcttt tgtctatgat 360

accagcacga aagacaag 378

<210> 32405

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D4

<400> 32405

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agagacaaca gaaaaaacac acaccaaggg aagggggggc ggccgcacaa gaggacccaa 120

cccaaccnac gcgcgcacgc gacggcacag ccnngcgaga gcggcaccca aagccaaaaa 180

acaggccgcg cgcaaacaac cccggaacgg gaaaaaccca cgcaagacca cacaaaaancg 240

cccggcagca cccccccca acgcaggcgg gcagaanagc gaacaggccc gaaccgagcg 300

cccgcccaaa 310

<210> 32406

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-D5

<400> 32406

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cgaccggcnc gaccnncng ccggcgaagc gcccnggcc anaacaggcc gggncnggcc 120

nccggcgccg nnaccccgaa gaaannagag ngcncaaagc aagccancgc ncngganaca 180

nnagcanggg anaacancan agganncgg nccaaaaggg nnggccngcg ggagcggagn 240

aangannaan agggacagnc gggggcannc gnannncaa gncagagggg aaanncnngg 300

annnangaaa gacgaacaac ngcgaaagca nnngccaaag angnnnnca 349

<210> 32407

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G6

<400> 32407

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ctgtggtgga tgacgcagcg gatgggcgct tccggccgcg acgtccctct ggagaccag 120

ttcatgctcg tcgaggtccc tgccagtgc ggcggcgccg acgacgcccc cgcgtacgtg 180

gtgatgcttc cgctgctgga ggggcagttt cgggcggcg cgcaggggaa cgaccgcgac 240

gagctgcaga tctgcatcga gagcggggac aaggcgggtgc agacggacca ggccgcgcac 300

atggtgtacc ttcacgccg cgacaacccc ttcgacaccg tcaccgccgc cgtcaaggcg 360

gtggagaagc acctgcagac gttccaccac cgcgacaaga agaagctgcc gtcgttcctc 420

gactggtttc gctggtgcac ctgggacgcc ttctacac 458

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G7

<400> 32408

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ctgagttgga taccagcgcg atgggcgtgt tgcactaacg tgcctctgga caccagctca 120
tgctcgtcga cgtccctgcc agacacggcg gccgcgacga cgctccgcc tacgtgggga 180
tgcttgcgct gctgcaggcg cagtttcagg cggcgctgca aggggaacgac cgctacgagc 240
tgcagatctg catcgagagc ggagacaacg ctgtgcatac ggaccaggcc gtgcacatgg 300
tgtaccttca cgccggcgac aacccttcg acaccgtcac cgtcgccgtc aaggcgggtg 360
agaagcacct gcatacgttc caccatcggt gacaagaata aactgccgtc gttccttgac 420
t 421

<210> 32409
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G9

<400> 32409

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cacctacctg tccgagaaga tcgggtactg gaggtacatc accatcttca ggcacctcaa 180
ggctaaccgg gaataccagg tgtaccccat cttcaagtac ttcgagaact gttgccagga 240
cgagaacagg cactgcgact tcttctctgc cctgctcaaa gctcaatcgc agttcctaaa 300
tgactggaat gccaaactct ggtaacggat cttctgcctc ttggtgtatg tgaccatgta 360
cctgaatgac tgccaacgca ctgcattcta tg 392

<210> 32410
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H10

<400> 32410

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acgacgacta gaccgatgat gccccctaca acgctgccga atcagcgggg ggccatatcc 120

gatcaagcga ggacaccacc agagaccgac cggatcccgga ccgcgctggc tgagatcggg 180
 gggcgggttca tgagctatga tctgcctgat cacatattac gaccgccgat tttgggttc 239

<210> 32411
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H12

<400> 32411

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 tcagctagtg ctttgctgtc tttgatgctt cgagatgggt tcaatcctac ggttgtgact 120
 ttacatcac tcctgaaggt tgtattagaa aatgataatt ttgaaggggc tctggatctg 180
 cttgatatat gcaagattga aggacttcag cctggcatac agactttcaa cacagtactc 240
 ttacgtgcat atgctagaag tcaaattcat gtccttgaat atattttgga gtgtatacat 300
 cgatcaaaaa tccaacctga tccatcaaca ctttgggtaca cgttttgtgc ctacgaggag 360
 catgaactgt acaatactgc aattgagtca ctgctagttc ttaacatgag aatgatatct 420
 g 421

<210> 32412
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H2

<400> 32412

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 aatggcacgg gcccttgggg cccaacgcc ctaacctggg tcggggccgg ccgccaacaa 120
 aagccccggg tg 132

<210> 32413
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H4

<400> 32413

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cgtggtgatc ctggacggct ccacggtgcg cggcttcgtg gcggacgagg cggccttcgc 180

gcgcagcctg gacgcgcggt tcgccgcgct ggacgccaac ggcgacggcg tgctgtcccg 240

cgccgagctc cggcgcgcgc tcgagtcctt ccgcctcctc gacggcggcg gcttcgggtc 300

ccgccagccg gcgcgcgtcc ccgccgaggt cgccgcgctc tacgacgccg tcttcgagca 360

gttcgacgcc gaccacagcg gcgccgtcga ccgcgccgag ttccacgacg agatgcgccg 420

catcatgc 428

<210> 32414

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-043-Q1-K1-H5

<400> 32414

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agagctgcca agtcagcgag gctcaggcaa gcaaaagagg aggctgagcg ggaaatagcc 180

gaataccgtg ccagatgga ggctgagttt cagaggaagg ttgcagagag cagcggcgac 240

tccggtgcaa acgtcaagcg tctcgaggaa gaaacggcgg cgaagatcga gcaactcacc 300

cagcaggccg caagcatctc cccggatgtc attcagatgc ttctgcggca tgtcaccacc 360

gtcaagaact gangagtgtc gttcccgaac tatgctcgca gacttgtacc gtcgatctat 420

ttaatttttg tcaagagtga gagtgggtgag gaat 454

<210> 32415

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H6

<400> 32415

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gagagaatcc attcagaagc tggctgcgga gcaagaggct cagcaaatag agaatgccgc 120

tagagctgcc aagtcagcga ggctcaggca agcaaaagag gaggctgagc gggaaatagc 180

cgaataccgt gcccagatgg aggctgagtt tcagaggaag gttgcagaga gtagcggcga 240

ctccagtgc aacgtcaagc gtctcgagga agaaacggcg gcgaagatcg agcaactcac 300

ccagcaagcc gcaagcatct tcccggatgt catgcacatg cttctgcggc atgtcaccac 360

cgtcaagaac tgaagagtgc tgttcccgaa ctatgc 396

<210> 32416

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-H7

<400> 32416

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<210> 32417

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A10

<400> 32417

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ggagtgtcat tgagaaagga ggccgcaaga tggggttga ctttgactat gatgagaaag 120

acaccagcta taacaggatc aagagcctgg tgaccgagga gttgaagcag tatttccggc 180

cagagttctt gaacagattg gatgagatga ttgtattccg gcagctgact aaattggaag 240

tgaaagagat tgctgacatt atgctgaaaa gagtgttga caggctgaag gccaaagaga 300

ttaatctcca ggtcacggag aagttccgag a 331

<210> 32418

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A11

<400> 32418

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gaggcccctg tggaggcact actttcagaa cacacaggga cttatTTTTTg ttgtagacag 120
caacgacagg gaacgtgttg ttgaggctag agatgagctc cacaggatgc tgattgagga 180
tgacctgcga cactctgctc tgtttgtatt cgaacacaca caatatttcc aaagctctga 240
aaatgctgct aaaatctact gacaatctgg gtctgcattc tgtgaaacag gcactctgct 300
acatgcagag ctcttgtaca acatgtgaaa aagggtatta tgaggttcac tagtgTTTTT 360
ccagcaacat ctccagcaag tcttgaagct tttcggcagg gctactagcg agaggatgtc 420
tgaacaactt atggctgctt tttttataca tattatt 457

<210> 32419

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-A12

<400> 32419

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caacgacgca taacgtataa tgcaagctcc atatcaccta cactggatac tcaataatga 180
taagctgact gactctcttc tcctactatc tccatacaca caacatcttc ctaatgctat 240
gaatgctgct aacattactg acaagcttga tctgcattcc ctgcgacagc ggcactgcta 300
catgcagagc actcgtgcta catctgggtga agggttgtat tacgggcttg actggctttc 360
cagcaacatc tacagctagt cttgaagctc ttctgcagga cttctagcga gaggatgtct 420
gaacaactta tggctgctta tttattacat attatta 457

<210> 32420

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A2

<400> 32420

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 gggaaggaaa gcaacaagag caacggggcc gcccgaaan aggagcaaag ccaaggcaca 120
 cgaaaacgcg acgcacggag gaggccaaac gggcaaggaa aaaaaagcgc aacgccgaag 180
 aaagacaaca caaggagagg gaaaaccacg gcggcaccca agagagagag cgggggacgc 240
 gcaacaaaaa gcacaa 256

<210> 32421
 <211> 157
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A3

<400> 32421

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 aaaggcaagg ggaacgnacg caaacaccan gancngaac aagcncnnga acggagaacc 120
 nggaccaag accacgcagg ggccgaccgg ggagaag 157

<210> 32422
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A4

<400> 32422

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 ancgcgnccg ccccnncagg gaccggcagc ggggccaann cgccccacna ggaggggagc 180
 aaacagcngc acagcngccc ggggaccgga acnccanngg ccacagcncc cagaggcgcn 240
 ggnacccccn gnacgcaacc aaacaaanca gcnggcgcac gaggaagcag gnggnaacag 300
 accggacacg cc 312

<210> 32423
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-G5

 <400> 32423

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 aaaggggaagg atttattaaa aatacatgat tactttttata ttaattttata attattttaat 120
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 taccttatatt tttttcctgt ataataatta ttaatttttc ttattattttt tctattatat 240
 atttattattt tttttctttt acaattttttt tattttttttt tttttttaat attattttttc 300
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<210> 32424
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-044-Q1-K1-A5

 <400> 32424

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 ccggcagggg aaaagacngc gcngcagccn cngganggac aaggacaagn aacggaagga 180
 gaggggcggc cggacca 197

<210> 32425
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-044-Q1-K1-A6

 <400> 32425

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tcagatatag aagaagcgga agcaggaagc tgaaggatat ccgtagcgaa tgaggaatag 120
gacatgcatg tgagctagcg aaaaggggaat agcacattct ctaggggttcg tatcaagcgc 180
tagcaaatgg agaggggtcaa tcgaatccgt atcctcgagc gctgggtctg tcctctaattg 240
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cgccggttgt ccgcattcct ctctcgcagc gaaagggtgtt cccacgcaat cgctatcgct 360
gttcctacga cgtagtcaat acgcattgga ataatggcat cccc 404

<210> 32426
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D9

<400> 32426

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ggggcttagg aaccacaata tcaagacgtt tacctgcaag acgatcgtga aggaccttag 120
ctcgtaaat aagggtatgtt ccaaggacgc tgccaagact cccgacttga taaagtatgc 180
cgctgatacc tactacctgt tacagc 206

<210> 32427
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E11

<400> 32427

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tgcgtgattg tcaacgggta gcatctcatg tcgagttgta tattgatcaa cgcgtagatt 180
attcgttcgt gcaaccctgg cggttaactt gtaatgtgta agtttcgagc acaatgatag 240
cgatctatgg ttgatgtgaa ggccattcag tctcgtgcta attgactatg atcgcacaaag 300
gactaattct agttcttgaa tgattga 327

<210> 32428
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E3

<400> 32428

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actggagcgc tgaaacgtct gactctgagt tcatcgaaga cggctgggag gaactcgtct 360
gggcgcacac                                     369
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 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-043-Q1-K1-E4

<400> 32429

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tctgtgaaat tgacttgagt gatgtagtgt cttctaactc actggctcca ttcttggatg 180
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 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E5

<400> 32430

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tgccgggtact ttgggcatat tagcgggcct attgcatcta agtgtccgtc cgtctcaacg 120
tctatacaca ggggttacgta tgggcaatat tgaaactgtc ctttcaatag tatcgctgct 180
gttctttttg ctgctttcgt aattgccgga actattttgg atggaacagc aactacccta 240
atcgaattat ttgggcctac tcgttatcaa tgggatcagg gatactttca gcaagtaata 300
tatcgaagag ttaacgattg gttagccgca aatcttaatt tattagaaac ttggtctaaa 360

<210> 32431

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E6

<400> 32431

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tctatacaaa tgattacgca tggtcactat gtatgcttac ctgctcactg gcatcgctga 180
tgtccttaga ccaaagacca aaaccgtctg caactattct agacgacaca ctaccatagc 240
ctgatgaaca tcatttgagc aaccgctaga tcatagagat gctctgatac agacaccaag 300
tattagatct actagacaag tcatgtatag tagtacatcg tagttaatga caaccttgat 360
ctcaacttcc tataaaaaca atctgtcatg attatatgtg acat 404

<210> 32432

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E8

<400> 32432

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gggccgttcc atttttaatc ttggaatcac tattacattc aatactcatt tcttttcaca 120

ttcaatacat aatattacgt tataaaactat t

151

<210> 32433

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-E9

<400> 32433

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aggaatttt 69

<210> 32434

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F1

<400> 32434

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atgagcaggg gccggtggag gtggcgcgcg cggtggccgt ccgagatgga gtacatatcc 120

cctgagagaa aattggaggg gacttggtga gatcctgggc cgttattgcc gaccaagggtg 180

gcagcttggt ggaccacttg ggttatcaag ggggaggaat tccacaacat gagtcttcaa 240

cactggatca tggacttttg gttgatccag ctggtgcaat tccgtattta tctacagatt 300

ctacgccctt catgaatgat caaatcactt gcaatgttat aaaatctgct tcagctagtc 360

cagaatcttg taaaaaaca ccttaagaac ctcttaatgt agaatctgat gtacagaatg 420

acgcaactga acaaatggtt cacaatagta actttgaaag aaccaagggtg taatttt 477

<210> 32435

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F10

<400> 32435

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tgcgcgctc gggcccgagg aggcgatggc acggtgctgg gcgacctgcc ggagaactgc 180
 gtcgtggatg tgctgctcaa gctggacccg ctggagatct gctggatggc gcggctcagc 240
 cgcacgttcc acgacgccgc gtntctgggac ggtgtctggg agtccaagct gctgacgaac 300
 tacgtgccgc ctctcgccgt cgc 323

<210> 32438
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F3

<400> 32438

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 gaaacttaaa ttaccattgc tgatggttta ttcgaaagac tcaaactcat atataaagta 180
 aagtaatcca atttggattc ttgtgtttgt tataagaaaa ataaaa 226

<210> 32439
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F5

<400> 32439

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 atgagcgctt ggcgcacgag cgggatactt cacgccctgg aagggtggac cgtgcacgag 120
 tgtggggacg ccatggtgca tgctgagaaa gcatggtcag ctgctattag gcacggattc 180
 gttcctttga cgaaagcctg aaagcctgta cgcaactcta gacgccattc gacgatggct 240
 ggaaaactac gtttcagcaa tcggtagcac aaattctccc cagctacaga agccgactat 300
 atggtctgct tgacgagtcg tccaggagg cagggcgtga tgaatggcga ccttgattcc 360
 aacagcatat agtaactata tatatagtta tgttgtggca ttgtatgatg caagtgcgag 420
 aaactgcttt gtggctgtgt gggtagacata taaaatttt aaattt 466

<210> 32440

<211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-F6

 <400> 32440

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 cgcggttac ttcacagct tgcgcaccaa gtacggctac ctgctctctg gcaccgcaca 180
 ctggctcagg ctacagacca ccacgtactg cccaattgtg gactagactc taccaagcga 240
 gaagtacttc accgccgaaa ccggccgaac tacacgtgct ctgctacaga cgcgccgtct 300
 atgtacgcca caactagtca tgtagcatac tgcaaagcgg taacaaatga actgatacac 360
 aagttggtat aaaaactata tgaacaagtg tgagggtg 397

<210> 32441
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-043-Q1-K1-F7

 <400> 32441

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 cagaaggggg ccttgcaaag tcgtcagctg cttgtcgcgc cactaccaca tgttcttcac 120
 ctgcccggct tacttcatca gcttcctcac cagctatggc tacctgctct ctggcatcgc 180
 acacggcctc aggttccaga ccaccacgta ctgcccgatt gtggactaca ctctagcgag 240
 cgagaggtcc atcaccgccg aaaccgcccg acctccacgt gctctgctac agccgcgccg 300
 tctatgtacg ccacaccttg tcatgtcgca tactgcatag cggtaactga tgaactgata 360
 cacaagttgg aataaaaaga atatgaacaa gtgtgatgtg atatagtgat ggttaaccag 420
 tgtatcactg tgattacata tat 443

<210> 32442
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F8

<400> 32442

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gttgggactc aggagaaatc gggggatgct tgtcgctctg ctacgacata ccgtgcacca 120
gcgtgggtac ctcatgagc ttgctcacca agtatg 156

<210> 32443

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-F9

<400> 32443

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aaaaaaaaa ggaagatttt aaaaaaaaaa aaagacaaaa aaaaaaaaaa aaaaataaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatg cctaccatat ctaaataatc 180
caaacttact tacccttctt ttcaaacttc atacctctcc aataatttcc cctaaatcca 240
atttattcac ctccatttaa caccaatcta acttttaaaa ccttaccttt acctaattta 300
atacatctcc acaaaatccc cttttcccca acttttttta aaccaaaa 348

<210> 32444

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D7

<400> 32444

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taaggatgac ctatacgtca aagtatacgt aacagtagac tactaccttc actgccaaca 120
gagttcgatg gagatccagg tatctggcta atcaactact cttagagagg tcaatctaga 180
actgaactag gaagaaattg ctgacatgct cagaagactg gacacactat atatatatag 240
catctacctt gagcatagca acctcacgct caagaattgc gacgtatgac tcatgttgat 300
acaggaaatt ccttgcaatc tgtgagaact gcaagcaaat gctattgcc aatatataaa 360

tgcaactataa tgtgtattat aatcattttt ttcgaaactt atttgtgcaa 410

<210> 32445

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G11

<400> 32445

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tgaccgtcca gactcatagc tccacctaaa actctcagca accataagac cattaattga 120

atacagggac tacactgact gatgagctcg ttgtgtccag agatcattcc ttaagaacta 180

taacatagcg atatcctatg ataccaagga ttacacatgc acgtaacgag acaaaagcga 240

tcatgcgga aa 252

<210> 32446

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-043-Q1-K1-B2

<400> 32446

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ctacttctcc tagtcttggt gcatctgcac agggctctaca gaatgaggac ttctccgcaa 180

gccagctaag taaaatgttc ggatctcatg caacgatgat ggccaacacc cttcgcacac 240

caatcattgt atttacacag acaggctcca tggctgtcct cctgagccac tatcgtcctt 300

cgtctacact atttgcatth acaaacgagg aacgagtga gcaacggcta gcactctacc 360

aaggcgtcat ccctattcac atgcagttct ctgacgacgc agaagaaact ttcttcagag 420

caattagcag cttgctgaaa gcacaatatg tgaaga 456

<210> 32447

<211> 446

<212> DNA

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<400> 32447

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gttggatatct tataaagcgg gaatgacccg tttatcgaaa tcgtggagaa catggaatac 120
ccctgaattg acctttgtgt caccaattgc tgttgttggg ggacagaaga tctccctcat 180
tcttaaaggc cgcaatctat ctattcctgg cacacagatc cattgtacaa gtacaggaaa 240
gtacatatcc aaagaagttc tgtgctcagc atatccaggt accatatatg atgattcagg 300
tgtggagact tttgacttgc caggacaacc agattttatt cttgggcgct gctttattga 360
ggtggaaaac aggttcaggg gtaacagctt ccctgttatt gttgcaagtt caagtgtttg 420
ccaggagttg agaagtctag aagtgg 446

<210> 32448

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B7

<400> 32448

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cggggttcgg tttcgtgggt gagcggatcg agatggcggc gtcggatgtt gagtaccgct 120
gcttcgtcgg cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca 180
cctacggcga ggtcctcgag tccaagatca tctcgcgacg ggagacgcag aggtcccgcg 240
gcttcggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 300
acggcaagga gctggacggc cgcaacatca ccgtcaacga ggcccagtcg cgcggcggcc 360
gtggaggcgg cggcggcggc gggtagcgtg gtggccgtgg aggcggcggc tacggcggtg 420
gcgggcgcgg tgatggcggc ggcggctacg gccgggg 457

<210> 32449

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B8

<400> 32449

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cggtgtatca tttcaagggg gagcggatcg agatggcaac gtctgatgta gagtaccgat 120

gcttcatcag cggactctcc tgggccacgg acgaccactc cctccacaac tccttcagca 180

cctacggcga ggtcctcgag tccaagatca tactcaatcg cgagacgcat aggtaccaca 240

gcttatgcta cgtcaccttc tccactgagg aggcgatgct gaacgccatc aagggcata 300

actgcaaaga gctggacggc cgtaacatca ccgtcaacta ggccc 345

<210> 32450

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C1

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gtacgagcac acgtggcctt tcctaccgtt gccaacaagc aacagagcca agaaatcagt 120

cgcgctagag cgagcaagga cgatgctggg atgcttctcg cggctgctgc tgccgacgac 180

agctgcgccg gagcccatgc cggcggcgtc cgacgacgcg ttcacgtcga cggcctcggc 240

ggcgggctcc acctcgctcg gctcgtggtc gtctcggcg cgctgcaagg acgactagga 300

ccactgcagc tgcacggagg tcaaggaccc g 331

<210> 32451

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C10

<400> 32451

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gagcctctag ccctagctag tagctagcca ctccggtcgtg tagtcatcag ccttctgata 120

gtcaccatg gccactgccg aggtccagac cccgaccgtc gtggcgaccg aggaagcgcc 180

ggtggtggag acccggctc cggccgcgt cgtgcccag gaggtgccc ccgtcgccga 240

ggccaaggtg gaggagccag ctgccccggc ggagaccgag ccagctgccg ccgctgagcc 300
cgaggcggcc cccgtggcgg cggatgaaga gacgccaaag gaggaagaga cggc 354

<210> 32452
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-043-Q1-K1-C2

<400> 32452

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cccaacttgg agggcttcaa accttaatat ccaacaatct ataataactt gtggctagct 120
gaaaatggca tgaagatgca cggttataat ggcagccaac tttgggatac agctttcaca 180
gttcaagcca ttgtggctac caaccttatt gaagagtttg gtctaccct taaactagca 240
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taccgccaca catctaaagg tgcattggcca ttctcaactg ctgatcatgg ttggcctata 360
tctgattgca ctgcttaaag actaaaggcc tcattattgt tatcaaagat ctcttccaaa 420
atgtgtggtg aaccattga agcctataga ttttatgatg 460

<210> 32453
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C3

<400> 32453

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attgcttcca caagatcctg attgctacat gtttagctta tccatagagc ctacacacct 180
tagcctcttt ccatgtcatg cttcatgtaa gtgaccttga acattctatc aatttttatg 240
ataatgccct a 251

<210> 32454

<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C6

<400> 32454

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tcgtcgggct cggtagggac gaggaatccc tgacgagggt gatcgtttcg cgcgccgaga 180
tcgacatgaa gaaggtgaag gaggagtaca aggtcaggta ccgcacgacg gttaccagcg 240
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tcatcaaaga aggaggtgtg gccaatattga catctacaac tatagaaggc actaaagctt 420
taacttttct agtcattggt gattgtacca aaaa 454

<210> 32455
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C8

<400> 32455

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tcgacggctc catcacctac ctcta 145

<210> 32456
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C9

<400> 32456

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tgatgaggaa gacaattatg atgttgacct ccatgttcag gagactcaac atgagcacia 180
agctgctgaa gatcgactg caacgtccaa tgcttctatc acgataacag aatctttaat 240
gtcatgagat ttacttgatg tgaatccata tgac 274

<210> 32457
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D1

<400> 32457

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gagacaaaat ttaccacctc ttttaattata tcccatatct ctactgtggt gttacctaata 180
ttaaattaac tgaccttgat ctaa 204

<210> 32458
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D11

<400> 32458

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attgacgccg tcagcgccaa caaggcccg cgcggtggcg ccgatgcccc gacaccgtcg 180
gccccgcacg gccgcccgtg gctgcagcgg gcgtgctgcg gcgtagccat cgcgggcgcg 240
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ctgtccatgg agtccgtggc cgtcaggcgc ttcagcgtgc gcctggacgc cgcgttcccc 360
gcgcgcccgc tgcggatcaa cgtcacgc 388

<210> 32459
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D12

<400> 32459

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gatttttggtg actttgtccg agctctaaat gtgttttcac caaatatccc aatggaagaa 120
aaagtcgatt tctcgttcaa gctatacgat atggatggca cagggtttat tgaacgaaag 180
gaggttaagc agatgttaat tgctctccta ggagaatcag aaatgaggct atctgatgag 240
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atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat gaagataatg 360
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<210> 32460

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-D3

<400> 32460

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aaacttaact gacaaatctt atacgtcaac tgaactatat gatgatctct gccatcctcc 120
ccaacgttac cctgctattg ctctaaacgt tatacctctc ctccatt 167

<210> 32461

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B12

<400> 32461

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ccggcgccgg cgacgactac gacagcgggt acaacagcaa gtccggcact gatgactacg 180
gccgtggcga aagtggctac aacaagtcgg gcggcgatga cgactacggc cgcagcggcg 240
gcgatgggta cggcaggtcc ggcggcgacg actacggccg tggcaccggc ggcggtggct 300

acaacaagtc cggcggcgga aacgactacg gccgcaacgg cggcgacgac tacggtcgtg 360
gcaccggctg ccgcggttac aacaagtccg gaaacgacgg ctacgacagc ggggtacaaca 420
gatcgggcac caccaacgac 440

<210> 32462
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-043-Q1-K1-D5
<400> 32462

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taggaacgga gcaaaggctc ggcgagccag agcaatagtt aacaaccatc tccacaaaca 120
ggctaccacg tagctacgta tatgccggaa ctgaactgag ctgagaaagc tcaggcgtga 180
actgaactag atggtgtttc ctgccatcct cccaagggtg gccgtgcat tgctcttcac 240
gttctaccgc gccgccagga agctcaggcg ccacgccttc cagctctaca accgtaggac 300
cgccgccaag ccgccttcgt tctccgtctc ccagcagcag gccggtgccg ccaccttcaa 360
gaccgacgcc gccatccctg acgccgtcgg ccggaccgtc gtctgtgacg tgcacggagc 420
cctgctgcgc tctncgcgc tcttccccta ctt 453

<210> 32463
<211> 116
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-043-Q1-K1-D6
<400> 32463

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taggggtcgt ttaaaggctc taagatgcat atcactcctc tacaacattc tctaca 116

<210> 32464
<211> 215
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-042-Q1-K1-G3

<400> 32464
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 catcgaggaa ccgctgctcc tgaactgtct gtctgattct gttcatttgt tgctgtgtaa 120
 gttgggcttg tgccaagctt gaattctctt gtgaaagagt ttctcaatgc tgctgatgac 180
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<210> 32465
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<223> Clone ID: LIB3068-042-Q1-K1-G7

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 caaggccatc gacatcaacc cggggcagct caagtgtctg accaactgca acttctcctt 180
 ctccgggctc tacacctgcg acgacgtcaa aaaggactgc gaccccgctc gcaagaagtg 240
 cgtcgtcgcc gtgcacgcct tctactcggg caacaacaag ttcagggtgca ccgacacctt 300
 cctcggcatg tgcggcccca agtgctagat cagagaggaa gaacgcgcgc tgctgctagc 360
 tgctatagct tcgttc 376

<210> 32466
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G9

<400> 32466
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 gtttctcaa gcagagtagg ctgcgtttac ctagaaaacc tagttttggc tggttacttg 180
 catgatggtc gaccgtttca gatggagttt gacagcaaac ccgttgtgtt aaccatgcgt 240
 ggcgatcag ccgatgtttc atgcatgcta ctgtcttttt ctttggttgg tttcgtacca 300

tagatagacg tgtgtagcga ccatcgatgg aaaaaaacct tgcacatctg gaacggcatg 360
catctcagtt attagcccct gctgttgac atgcaaaaa 399

<210> 32467
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H10

<400> 32467

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acttgtgaag atagtgaaga aaaagacgga tttaccagtt cgagaaaaaa tatttcttct 180
gttagatgca acacaaacat cccttgggtg agctaaagca aggttccttc agtactatga 240
ggcactat gatgttggtgt ctgctgggtgt gcaattttca aatcggccaa atgttcttgt 300
cacacgagca gaagtgccag tcccagaaac gagaacagaa ccaaataatg aaagtttatc 360
gacccgtttg actgaagctc aacaagaagt gcacactcag cctgttctg atgcaagtat 420
agtccagaaa gcctctagt tcatggaagt attgagggat gtgcctaatt ctatg 475

<210> 32468
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H12

<400> 32468

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cttccggccg gccgcgaaga gcgcaatcaa gcaagacaag atggtgaagc tcgccttcgg 120
aagcgtcggc gactccttca gcgccacctc catcaaggcc tacgtggccg agttcatcgc 180
caccctctc ttcgtcttcg ccggcgtcgg ttccgccatc gcctacgggc aactgacgaa 240
tggcggcgcg ctggaccggc tgggcctggt ggcgatcgcg atcgcgcacg cgctggcgcgt 300
gttcgtgggc gtgtccgtcg cggcgaacat ctccggcggc cacctgaacc cggccgtgac 360
gttcgggctg gccgtgggcg ggcacatcac catcctgacg ggcgtcttc 409

<210> 32469
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-042-Q1-K1-H3

 <400> 32469

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 gctggctcgtg ccatcggtag agttaggtcc cgtttgtttt gaggaactaa aaattaatcc 120
 ctctattttta gtcaaaaaaa aataaaaaaa aaaataataa ata 163

<210> 32470
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-042-Q1-K1-H4

 <400> 32470

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 atgtggtgtt tggggggcag ctcacggagg gggccgacgg cctcaacaag acgaagagga 180
 agacgggctc ctgcaccaag gggaaggaga caacaggac cgggatatcc aaggccgaga 240
 ggccttcga cgtcgtcgca actgcctacc gtgatcgtca ggctagccag atcacctttt 300
 cccaggacgg gaccgttcct accaggaagg caacttcagt ggctgggggtg gcaaggcagc 360
 gtgagcttag ccataccgtc cagagtgagg gggacag 397

<210> 32471
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-042-Q1-K1-H5

 <400> 32471

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tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac tgcgaggtcc 180
 tcgagtccaa gatcctcctc gatcgggaga cgcagaggtc ccgcggcttc tgccttcgtca 240
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<210> 32472

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H6

<400> 32472

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 tggcggtggc gctgctggcg gagtgggcca cggcgggcgc gcctcggaag cccgtggacg 180
 tgccgttcca gaagaactac gtgccgacgt gggcgcgagga ccacatccac tacatcgacg 240
 gcggggcgga ggtgcagctg tacctggaca agtccaccgg cacgggcttt cagacgcggg 300
 gtcctacct cttcgccac ttcagcatgc acatgaagct cgtcggctgc gactccgcgg 360
 gcaccgtcac ggcttctac ctgtcgtcgc agaactcgga gcacgacgag atcg 414

<210> 32473

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-H7

<400> 32473

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 cgagctattc agtggagacg aagagggcta cagctcagag gctgcaggtt gtcgccat 118

<210> 32474

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A11

<400> 32474

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aagaaaattt aaaaaaaaaa aaaaaaaaaa acaaataaaa aaaaaaaaaa aaaaaaaaaa 120
atatctcttt tttttcaa tctcatctct tacttcttct ttttaatttt ttattcttct 180
cttttctacc ctcatctcaa ttcctttttc tttcttaaac tatttcttct cct 233

<210> 32475
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A12

<400> 32475

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gagtaccgca acgaggggtg cgccatggtt cccatccgtg tgcacacagt cctcatctct 120
accagcacg acgagacagt caccaacgac gagattgctg ctgacctgaa ggagcacgtc 180
atcaagccag tcatccccga gcagtacctc gacgagaaga caatcttcca cctcaacccg 240
tctggccgct tcgtcatcgg cggacctcac ggcgacgccg gcctcactgg ccggaagatc 300
atcatcgaca cctacggtgg ctggggagcc cacggcgggg gcgccttctt cggcaaggac 360
ccgaccaaag ttgaccgcaa cggggccta 389

<210> 32476
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A3

<400> 32476

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gagggcagga tgaggctcgt ggatcatgag gcggatgcgt ctgtcgtcgc agtcgcagca 120
gcaccgacag ctgctgaaaa gatccatggt ttctactgat ggtagcagat acatgtgtag 180
attgattgat acatcatcgg acggatggaa gaattgatac cacacaaact gctatatata 240
tatgtactgt gagtaaacag ttaaaattaa acttgtgaga tataccgtac atatgaagag 300
ctagctagta gtgagtgata cagtgggtaa gtgaatcata tatagtcgta gaaacaatca 360

ttccctttgg agcactccct gaacgcctgc tc

452

<210> 32479
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G2

<400> 32479

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aggccaaggt ggaggagcca gctgccccgg cggagaccga gccagctgcc gccgctgagc 180
ccgaggcggc ccccggtggcg gcgagggaag agacgcaaaa ggaggaagag acggcaaagg 240
aggcggagcc ggagccggag cggcgggcgg ctgaagaggt gaaggaggaa gcggcagcgc 300
ccgctgccga gacagaagca gaaccggcag ccgctgagcc cgaggctgct gctgctgctg 360
aggagcccgc ggcggtgag cggcgccgctg aggagcccga gaaggccga 409

<210> 32480
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A9

<400> 32480

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aggtggtttc attatccagg gctgacgaga agcaccacca ccaccacctg ttccaccaca 120
agaaggacga ggagcatgcc gcggccggcg ggtacggcga gtccgcctag tacacggagg 180
ccacggtgac agatgtcgtg tccacgggag agaacgagta ctactagtac aagaaggagg 240
agaagcagca caagcacaag cagcacctct gcgaggccgg cgccatcgac agcggcgccct 300
tcgcactcta cgagaagca 319

<210> 32481
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B11

<400> 32481

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agatgggtat gaaggctcttg gggctgtttc agctgggtgtg cttatcttct ggggaatagc 120
ctttggtctt gcactataat ccagggttgt acatgtcacc tgctcagctt ttgcacggcg 180
tatttagacc ttgctcgaca aaacttgatc cttgcatttc tcaaggataa ccttataaaa 240
cagacagtgc tgaaaatggc actgttcttc accaagtact ttaatggata cacttaacat 300
ctgttccacc aaatcaatga ctacaacttc cacagaacac cct 343

<210> 32482

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D6

<400> 32482

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ttgacgagca ttatcaatca ccctgctgag attgtgaata tgcttgccaa gagcctgcct 120
ggaagcgcaa cgttcttcct cacgtttgtt gcgctgaagt tcttggttgg ctatggcctt 180
gagctctctc gcctgggttc tctcatcatt ttccacctga aaaggaagta cctatgcaag 240
acggaggaag aagtgagagc ggcattgggt ccagtggatc tgggatataa caccagggtg 300
ccaaatgaca tgctcatcgc aacagttgtt ctgtgctact cagtcattgc gcctttgatt 360
attccgttcg gtgtcgcata ctttgccttc ggatggctta tagcaagaaa tcagatcctg 420
agagtttacg ttcctagcta cgagagctac ggacgaatgt ggccacacat gcacacgagg 480
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<210> 32483

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D7

<400> 32483

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 ctgcgcgcatc acacacctag cgctcgacgg aatgattgag tttgaatcat catcgtttct 120
 gttatttgggt ttagtatggt acgttaatta atcacgtgag ttggagggca agagttggat 180
 taatctcaag gtgaggctga cgattgaaca tgaagatttg atgatctggt caaataccag 240
 gaggagagat actcaccaag tggatcatcat ttaacaacac tatacgtagt gttaatccaa 300
 ggtgtaagtt ttgttctggt gtggatgggt ctaagtgccg gtgggctcgg ctttcttata 360
 taagtatatc ccatcttttag cttctt 386

<210> 32484
 <211> 52
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-042-Q1-K1-E10

<400> 32484
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<210> 32485
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-042-Q1-K1-E4

<400> 32485
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 gcggggacag cgcggcggcg gcgacggaga acccgccgag gaaggcgggt ctggcggagg 120
 acacagcccc tccaccgtgt tcgtttccaa cctcccctac accttcaagt cctccgatct 180
 cgaggcgggtg tttagcgagg tcggcccagt gcggcgctgc tttatggctc cgagagaaagg 240
 gtcggagaag agtcgaggct tcgggttcgt gcaatttgca actgttcaag atgctgatcg 300
 agctcttcaa caaaagaatg gatctcctgt tgctggtagg aaaatcagag ttaagctagc 360
 aatgaatcgt gctccactga aggaacgttt gcaaaagggt aacatgcaag tgaaggactc 420
 tgatg 425

<210> 32486
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-042-Q1-K1-E5

<400> 32486

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tgatggaacc tccaatgagt ggggctggtg caaacagaag cttggagcaa atgccatcct 120
tgcggtttca cttgctgtgt gcaaagctgg agctatgggtg aagaagattc ctctttacca 180
gcacatcgca aatcttgctg ggaacaaaac tctgggtgctc cctgtacctg cctttaatgt 240
gattaatgga gggtcacatg ctggaaacaa gcttgccatg catgagttca tgatcctncc 300
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gaagagcata atcaagaaga agtacggtca ggatgcgac 399

<210> 32487
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E6

<400> 32487

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cctactccga caaccagccg ggggtgctga tccaggtgta cgaggagag cgcgccagga 180
ccaaggacaa caacctcctt ggcaagttcg agctgtccgg catcccgcgg gcgcctcgcg 240
gcgtgccccca gatcaccgtg tgcttcgaca tcgacgccaa cggcattctg aacgtatcag 300
cggaggacaa gactacagga cagaagaaca agatcaccat caccaacgac aaggggaggc 360
tgagcaagga ggagatcgag aagatggtgc atgacgctga gaagtacaaa gctgatgacg 420
aggagcatag gaagaaggtg gacgccaag actcgtgga gaactacgcc tacaacatgc 480
gc 482

<210> 32488

<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E8

<400> 32488

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cctggccgtg tacaggaact acacgtacga cgagtactac gccaaagtctt ggagcaggaa 180
cctggaccag gagcactgcc tcgagctctt cagaacctag cgaatcggat acggatggat 240
ggatacatta catacgcgcc ctctgttttt ctccatgacg ttagaagaac acgttctgca 300
atgtttgtcc attcaagggtg gtatcaatca aggctgtggg cgttgcaatt cttccgatcc 360
atatacatga ttaaattgctt tgaaagaaaa agaacaatag aaacacatgt attatggcac 420
tactagtgtt tttaggaaca aggaaagagg ggttgccccc tgctggc 467

<210> 32489
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E9

<400> 32489

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ggtcaacagt tcggccaccg cgctcgtgct gtccacgggc gggttcaccg gcaaccggtt 180
ccacgactac acggacgtgc tcatcccggc cttcatcacg gcgcacccgc tccgcggcga 240
ggtccagttc ctggtgagca gctacaagtc gtggtggatg aaccgctaca tccagatctt 300
ccagcagatg agccggcacg aggtggtgga catcgacgcg gacgacgagg tccggtgcta 360
ccgcagcgtg gtggtggggg c 381

<210> 32490
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F10

<400> 32490

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aaaaaaaaaga aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaatta taaaaaaaaa 180
aaaattaata aaaataaaaa actaaataaa atataaaaaa atattaatta aataaaataa 240
taactaataa aaa 253

<210> 32491

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F11

<400> 32491

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atttaattct ccttcatttt acaacatttt tcctttgtta aactcctttc ttacccaaat 240
aaccctcctt tcaccccttt taacttactt cctcttcctc catctctatt aattccctc 299

<210> 32492

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F2

<400> 32492

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cggcggagct ggtggcggcg ggcagccgga cgccgtcgcc caagacgaag gcgtcgcagc 180
tggtggggcg cttcctggcc ggcgtccgagc cgccgtgtc cgtgcagctc ggcgaccacg 240
gtcacctcgc ctactccac accaaccagg cgcttctccg cccaggtcg ttcgcgccca 300

atgacgaggt gttctgcctg ttcgaggggg tgctggacaa cctgtgtcgt ctgagccagc 360
 agcacgggct gtcaagcaag ggcgcc 386

<210> 32493
 <211> 229
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-042-Q1-K1-F4

<400> 32493

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 atatttcaag tcccaggcaa ntttcaataa nttatctggt ctctagacac cagaataata 180
 atagacattt attcctcata ttatacacat ataagttcaa attctcaat 229

<210> 32494
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F5

<400> 32494

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 gttagaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atacaaaaaa aaaaataata 180
 aataaaacaa aacttaaata aaaaaacaag taagttaat 219

<210> 32495
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-F6

<400> 32495

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ggcaatgttg gagaaactat ggctctagct acccaatcac tattagtttt tccgttgctt 180
tccgaccgaa cgattctaata tcacagtctg gtcttcctat ggattctgtg aatgacgggtg 240
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ttgggggttg gagatcttgc ccattcctga gggatgggcg taattcatcc ttgggacgcg 360
catctagaga ccgttcaggg acttgccagc caccagttac caaccagggg acagcttgcc 420
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<210> 32496
<211> 231
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-042-Q1-K1-F7

<400> 32496
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tggatcaatg gaagggttgt gtcctagcca gccggcaaag atgagctgct gatggtaatg 180
atgatgacta gaggccactg ctaccctact acgtaccctc ctctttgtgt g 231

<210> 32497
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G1

<400> 32497
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gggggtatct gccttgggcg gtgaccctg tctgtctcgc catggctaca tgcccctcat 120
caaactagcc aactacagct cttctacaa catcgttcac aacttatcca tga 173

<210> 32498
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D2

<400> 32498

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cttctgattc aaggacttat tacactaatg gcacctcgca atcatgttcc ttgatcatt 120
ttatgatatg atttatgac tgaaccacat taaacacctt tctatttaac gcagcctgat 180
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gtgatcgatg aggtgcgcac tggcacgtac cgtcagctct ttcaccctga gcagctcatc 360
agtggcaagg aggatgccgc taacaatttc gcccgtagcc actacacaat ttggcaggag 420
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<210> 32499

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-A8

<400> 32499

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taagtacttc agacctgaga ttaaaacagt atctggagaa gccttgcgta catttgtgta 180
tcatgaaatt ctgataggat atcttgaata ctgtaaactg cggggattca caagttgtta 240
catatgggct tgtccacctt tgaagggtga agattacatc ttatattgcc atcctgagat 300
tcaaaagact ccgaaatctg ataaactgcg tgagtgggtat ctatctatgc ttcggaaagc 360
ttctaaggag gaaattgttg ttgagctcac aaatctatat gaccatttct tccttactat 420
gggggaatgc aaggctaang tgactgcttc tcgcttgcca tatttcgatg 470

<210> 32500

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B3

<400> 32500

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ttcagcaaaa gaagagaagt caaaaacacg caaacaagga aaatgagttg gtggtggaat 180

gaatagactt cgtgagagat actgagatat tcctgtcact aatggatgcc aagagattgg 240

cgatgcttgt attctttgag aagaggtcat gttgacgcgt ttggacatgg tttctggaaa 300

catccttgaa aggctgttgt ttgcttcggt tgatgacaat gggaaacctt 350

<210> 32501

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B4

<400> 32501

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agagagcagg gagagaccag agcaaacaac aaccaccgct tgtttcatca agaatcgtgg 120

aggagaaccg aaagttgagc tttttccggc agggcatctg ctagagccgg ccggttgaag 180

caggggagcg agaggaggag ggcagccgaa caggagcatc gcagtgggtg ttaagcagca 240

gcaacgacga cgacgacgac gctgagaggt ttccccgttc ccgacggcac gtccaccgag 300

gcggcgccat cgcgatgggt cctctggcgc cgctgaggtg taaccgcgcg tcgtcgttct 360

ccaagtcgcc ggggtccctg ctgctgctgt ccaagtcgct caccctctac tgctgaaccg 420

agcccc 427

<210> 32502

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-042-Q1-K1-B5

<400> 32502

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gacggatggc gagggcgcg ctcctctctc tctctctctc cctcgtggcg ttcctcgccg 120
gcacaggctc cacggcgggc cgacacgccg cgcccgacc cgcgctccgc ccccgggcgt 180
cgccgtccat ctccgcgggc cccgagtacg gggcgccgct cccgcgcctt ccgaaccagc 240
accagcaccg gcaccccttc gcgctggcg cgctgcagcg gctggcgccg gacataatgc 300
ccgtgctgcc gtctnccggc gaggacggcg ccgcgcgcgc ccggccccgg cgctggcgct 360
cctgctgctg gctgtgccgt ggc 383

<210> 32503
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B6

<400> 32503

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gaccaccgtc gccaggttcc ggcgccgcac ggcgacgtgc agggccagca gcggcggtgg 180
cgggtggccgg gggggcgaaa atgatggcct cctttggctg ccccgggcggg acgtgatgct 240
caacggcctg tccagtgtcg ccgccgggct cgccctggtag ccgggcgtcg cgtccggcg 300
ggatgcggtg tgcaccaggc ccgacaaggt gaacgagaag accgtgcagt gcacggaccc 360

<210> 32504
<211> 495
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-042-Q1-K1-B8

<400> 32504

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aatatgcaa tttcatcggg atggtattga cgcagctcag gttgttccag cctggccttag 180
ctgcttgcc ataaaagacg acaagggtga agctaaagtt gtacatggac agctttgctc 240
catggtggag aggtcggatg ctgaaattct tggctctcac agtcagtatc ttcctaaaat 300

tgtttcaatt tttgcagagg ttttgtgcaa tggaacagaa cttgccactg atgaaactag 360
 aaacaggatg gtgaatgtct tgaggcggtt ccagcagact ttgcctnctg attntcttgc 420
 atcgacgttt tccaacttgc aaccgcagca acagctactg ctacagtcca tcttgtcgac 480
 atagttgttt tttct 495

<210> 32505
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-B9

<400> 32505

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 gggcctggct ctacctgggc aaaacgccat taccaacgtg taggcggtaa gggagtagtg 180
 gtcgccgcca tcgggtgctt acacgaccgc ttgcagtcgc ggtggagggt tgggagcttc 240
 gcgagcgcca taggaaagca tatcaaccct caatttggca aggaacgtcg tggctctggtg 300
 gggattcttc accggaattg ggtggcagcg cggagctttc ccaccccgctg gaccagtctg 360
 ggcacccccg caaccccgac gagcaagtga ccgatgaccc aggtgttcag catgagaaaa 420
 ttgctaggca tgagctcggt g 441

<210> 32506
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C1

<400> 32506

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 cgtaccagat tcggctggtg ctagagatga gcgcgcggga caatccggag gagatggaga 120
 tggaggtcgc caagcagctt agtctgggct tctgccctcc acatggatcc cctgcggagg 180
 tcctcgcggt ccgataccgg aatttcaatg cccttggcta tgacgacaaa atattggatg 240
 gattttatga tctgttttat gttggaaatg ggccagcagc agttactatg ccctcttttg 300

ctgagctacg agtccggcca ttttcacata aagtcgattg ggaagctgtg ttggccaca 360
gaggtgaaga ccctgagcct atgaaacttc agcaggaggc cttaatcatg aatcatgaac 420
ttcattcgag aacttcagaa tctgt 445

<210> 32507
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-042-Q1-K1-C10
<400> 32507

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tcaaccacca caagaaggac gaggagcagc ccgtcggcga gtacgggtac tccgagaccg 180
aggtgggtcac cgccaccggc gaggcgaggt acgagaggta caagaaggag gagaaggagc 240
acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgtcggcgcc ttcgcactct 300
acgagaagca cgaggcgaag aaggaccccg agcacgcgca caggcacaag atcacggagg 360
aggtcgctgc cgcggcggcc gtcggcgccg gcggctacgt attccacgag caccacgaga 420
agaagaagga ccacaagga 439

<210> 32508
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-042-Q1-K1-C11
<400> 32508

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aggagtggca tagatagaac caaacagga caggaggatg aagaacggtt cggcgcgggtt 120
ggttgacgcc ataaactctc tctctctctc tctctctctc gccttaaata aatgaacggc 180
cgaattggaa cctactagca ataagtttcg tcagcgccgc gcgcgcacat gtgcagggtg 240
ccgtgcgagt acaagcacag gaacctgtcg gtgagggtgc aggagaagag gcgctccccg 300
ggggggccctg gcgacctcg catcaggttt ctctaccatg gcggccagac cgacatcgct 360

gccgtcgacg tcgcgcatgt cgggagtcgg gttattgctg atacaacgga gctttcttg 419

<210> 32509
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C5

<400> 32509

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tgtggattgc aattgcgcta tgtaaatccc caagttgaaa gttgtttcct tatcttgaga 120
agtataacaa ggtatgctgg ctgcgtcgaa atatattaca tacactgcag ccatgatttg 180
cgtgttgat agtaatgcat cttaagct 208

<210> 32510
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C7

<400> 32510

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aaaaaaaaaga aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 120
aaaaaaacaa aaaataaaac aaaaattaat ctacaataaa ctaaataaaa tataaatcaa 180
tatacaaaaa aatcaa 196

<210> 32511
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-C9

<400> 32511

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agctagaaat ctgcctagc tcgtcgtcgg agaccaagga gaagagcaag ggggggcgca 120
gaggcagagg cttgccagcc tacctagctc gtcggggccc tatggagatc cagcaccacc 180

gggggctggg caactccaag gttgtcaagg tgcagagcga ggaggcgtgg gatctgttca 240
 ccgatcaagc gagcaacgag ggccggcccg ttgttgccca ttccggggcg tcatggtgcg 300
 tgacgtccct gtccatgaac tacaagtttg aggagctggc gcagaccac cccgaggtct 360
 tgttcctcta cgtggacgtc gacgatgtcc atagtgtttc atccaggtac ggagtgaagg 420
 ccatgccgac gttcttcctc atcaagagca a 451

<210> 32512
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D1

<400> 32512
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 aatacaaggt taatttgaaa taaattaaaa ggaattaaaa attacataaa attacataaa 120
 ttaaaattaa cttaaccata ttttaaaaca tcttaaattct tcaaaaccct atcctttccc 180
 aacctaatta ccttttaaacc cattatcctt ttaccaactt acttaataac caataatccc 240
 tcaaaaaatc caatttttaa aaatttttca accttaattt ataattttta tcctcctt 298

<210> 32513
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-D10

<400> 32513
 tcccactcgt tctccactc gttctccac tegtctccc actcgtccga aaaaaaaaa 60
 aaaaaagaga aaattaaaa aagaaaaaaa agaaaaaaa aaaaaagaca aacaatctaa 120
 aggctccaat tttaacatat cctgccttct acctcatagc tccaatatta tatcccttaa 180
 tattaatccc ctaacactaa ttttacaacc tccttactac aaaaacctta ccgttaaaaa 240
 acttaatctc cttaaataaa atcccttttt tcccatcttg ctttataccg atgaggtcct 300
 aaccaatagc ctttccca 318

<210> 32514
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-042-Q1-K1-D12

<400> 32514

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acattgcagg gttcatcatg acaggggctt ttgctcatgg agctatTTTT ttcattaggg 120
attacaatcc ggaacagaat gaagataatg tattggcaag aatgttagac cataaggaag 180
ctatcatatc tcatttaagt tgggctagcc tcttcctagg attccatacc ttgggccttt 240
atgttcataa cgacgttatg cttgcttttg gtactccaga aaagcaaatac ttgattgaac 300
ctatatttgc ccaatggata caatctgctc atggtaagac gacatatggg ttcgatatac 360
tcttatcttc aacgaatggc cccgctttca atgcatgtcg aaacatatgg tttgcccgat 420
ggttgaatgc tgntaatgag aatagtaatt cgcttttctt aacaa 465

<210> 32515
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A6

<400> 32515

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agaggaggaa gaagaagcat cggcagcatg tcggagggga ctgccaactg cgtggacatc 120
ctgatcgcca tcctctgcc tccgctgggg gtgttctta agtacgggtg cggccacgag 180
ttctggatct gctctctct cacttctctc ggtacatcc ccggcatcat ctacgccatc 240
tacgccatca ccaagaacia ctagctagtc atccttgccg acgacgatcc atgtctctgt 300
atctgctgt gttcatatgc ctgatgccga cttgtgctgt atgtagttgc ttgaattcaa 360
tcgtgttttg ctaccgtacc caccatgc atcatctgtc ccgcgacgca ataatacatag 420

<210> 32516
<211> 261
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G1

<400> 32516

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cctgtgcgct gccgccggcc ctgccgtcgc gcagaactgc ggctgccagc ctaacttctg 180

ctgcagcaag ttccggtact gcggcacgac cgacgcctac tgcggcgacg ggtgccaatc 240

gggcccgtgc cgctcgggcg g 261

<210> 32517

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G11

<400> 32517

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gtgaagcaaa taagtgcctt agaagaaagc tggaggagac cagcaaccag gtgcatggcc 120

aagtgtggga gcacgggtgcc aacttactcg gctacgagag gcactctcct caacagcagg 180

ccccatcaca tggttggaat ggtttgttct ttcattccct ggaagctgca gcagagccaa 240

ccctgcagat cgggttcgct cctgagcata tgaataactt catgccaaaca tggctaccct 300

gaagatggat cttgaggcaa aggaataaaa taaagatgcg gtggcagcat catactctat 360

gcaagctaag aatgacagct gtgtttcagt cacatatatg atctagtctg tgtgtcaatg 420

tgtcgaaaaa catgtctgtg attttg 446

<210> 32518

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-G12

<400> 32518

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 ggcgctggtg gtcgaccgtg gaattgctgc gactccgcta tcaaggacgc ctccctgccg 240
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 tcgcccggcg gcgacggctt cgtctgcggg gactttatct taagcctgac cgagcccccg 360
 gtctgcacac cgaggccgtg ggactgctgc gacagcgtgg cctgcacaag ggactacatn 420
 cccaactgca tgtg 434

<210> 32519
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-G2
 <400> 32519

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 ggatgcgatg ccttggcatt cccaatacta agaatttcaa tgaaattaca tccatcgagg 180
 aggcgaaagc gctctgggag aaaattcaag caccgacaagg ggtgaacaag tggcggccag 240
 acctagaaga agagtatgaa gatcaggaag gcaacatcta caacaagaag acctacactg 300
 acctgcagcg tcaaagcctg atctagggct cctgctgggt aaagttgtcg ggatttgttc 360
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 gtaataagat gatttttccg g 441

<210> 32520
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-041-Q1-K1-G3
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ccctagggga gcgtcggaga ggaatcgcaa agagggccgt ctcatccgag ttaaggaagc 120
catggagcac aaggaggctg ggtgccaggc ccccgaggga cccatcctct gcatcaataa 180
ctggggcttc ttcggcagcg cggcgaccat gaacatgtgc tctaagtgcc acaaggagat 240
ga 242

<210> 32521
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G4

<400> 32521

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aagcttccga caccgaagcc aaccccggcg tcgaccaccc tttttcccaa gcctccgacg 180
cccaagccga ccccgccgac gttaaactcca agccccaagc cttcacacac gcgatgccca 240
agccgaaccc accgacgtac acccctttcc caaagccttc gacgcccacg ccgtccccac 300
cgacgtacac cccttcccca aagtctatca caccgaagcc gaccccaacg acgtacactc 360
ccaca 365

<210> 32522
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-G5

<400> 32522

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aaactgttgg catatcattg aatttgctta taaacgtggg gaaacataac ttgcctggga 180
agtgggtgct gtcagcctgc gatcgtgaac tgtaacttat cgaaaatgca acggagtttg 240
ggactctact atatgatttg tttcagtttt tct 273

<210> 32523

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-G8

 <400> 32523

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 ttcaagggtc gtctgggttca gtactctgtc gctatgggtc tgcattgcgg tatcggtttt 180
 gcaagtccga caccttcaag ggttcttcag aaagaagaag ctcatctaga gtctctctgt 240
 aagatgttgc gctgtgggtc agatgttgtt caccttggaa ggggtacaatt ttgcctttta 300
 catggaacat ttcacaccag tgatgactga tgggctactt gtactgtatg taatttaagt 360
 acgattggat cgaaaatcta tatttcaggg 390

<210> 32524
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-G9

 <400> 32524

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgccctt tttaaagttc 180
 ccaattttac ttccccttcc ttccaaattt aaattttttt tttagggtcc cctaattaaa 240
 attaattgcc ctttttttta aaacttttaa atttgaaaaa ctttggtttt cccaaattta 300
 aaccctttta aaaatttccc ctttttccca ctttggttaa taccaaaaag cccccacca 360
 ttcccctttt caaaaaattt cccaccttta atggaaattg gaacccccct 410

<210> 32525
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-H10

<400> 32525

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taaggccgcg ccagggccgg cgtcgtcgtc gggctcgggc gcgggcgcgg cggacgcggc 180

gccgccgacg gacgtgaaca aggcgctgaa agacgagcag ttcagcgagt tccggcagct 240

ggtgcacgac acgcgcgtgg acacgcaa at caacgcgcaa ctgacggaca gctacaacgg 300

gctgaccatc atgggcgcca ccaacgcgcg cttcgacaag atgaaagccg gcgtgctgaa 360

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c 421

<210> 32526

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H3

<400> 32526

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cactcggttc ttgtgatcat gtcttatgca gacctgtgaa ctgtggtgtt tctgacaact 180

atgccgtgcc tgtaattatc tactatgttc cgagagaaac ggttatgtat ggcttatttg 240

cgcttacttt gcttt 255

<210> 32527

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H4

<400> 32527

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tctaaaagg taaaccaacca gggcagggtta atcatgtgat tctataacca ttgacccat 180

tttttacaga atgacagtgg aattaagcaa aagatttaaa caatgtaatg acttgctgag 240
gactgaagta ttaaagttgt gtcaagacaa caattttcaa acagggtttt ttgaaggcac 300
tgataatagc actgttgttg atgcttacga gttgaatgta aatctaaatg tacactctgt 360
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<210> 32528
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32528

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ggcgtagcgc cactttggaa gggacgaccc tgacttcacc tgggaggtgg tgaagccact 120
caagtcggag aaaccttctg cctaaggcgg cttttttttt cagtaagaag cttttggtgg 180
tctgctgtgc ttaatcatgc ttttatatgg cttctacatg ttgtggttct ttcttgatct 240
gcaccgcgct tatcgantgt gttgtactgc cctaataatt ggtgcttatg atgactgttt 300
c 301

<210> 32529
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H7

<400> 32529

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gtgcttgagg aaagctattg cgatagttaa acctggagtt cggttccgag aggtcggaga 180
agtcataaac agacatgttt caatgtcagg tttatctgtg gtgaaatctt attgtggcca 240
tggcataggg gaactgtttc actgtgcccc aaacattcct cattattcaa gaaacaaggc 300
cgttggtatc atgaaagctg ggcagacatt tacaattgaa ccaatggtca atgcaagggt 360
ttggaatg 368

<210> 32530
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-H8

<400> 32530

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 actcgctagt cgctactgat ggttccaaga gcaaaggccc atgttgtttg ggatccagta 180
 ggcccaatca agccgttgac tccgaggaga gccgctgccg atgtcctcgc ctcttgccga 240
 caccttcacc cactcccagc aggccaggcc agcacacatt ggcgcttctc gccggagaag 300
 ggtgggcgga ggatgccctg cctggcccct gcccaattgac ggccacatgg cttcttctag 360
 cagttgcagg caagtagata aacctaccac gacgagcaaa cgcagatctg tagcctagta 420
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<210> 32531
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A11

<400> 32531

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 cctctccttc taccctcca actcctacct tctcgatggt catgatgagc ttcttgctgc 180
 tattaatgat tctaagaag gtcttctcca tttgaagctc tctatgctac ttaatcaagt 240
 atattatata ttccatata atgaatcaat atcccaatca ccctaatttt ctattgactc 300
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<210> 32532
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A3

<400> 32532

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aagggccgtc ggccggtcac cgcatacact gcgatgtgcg gtgctcttca gagagctgaa 180
ccctacttac tgatgaaccg attccaaggt tgacggggccg ttaatcacag atgataac 238

<210> 32533

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F9

<400> 32533

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agcaaaat ttataaaaa aaattaaata aacataaaat acaaaaaaat aacatattct 120
ttaatatcaa cctaaattct attcactctc ctactttaaa caacattctc tatttc 176

<210> 32534

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A4

<400> 32534

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ttcgggcgtt cggccactcg ttctttcact cttcctccca cgcgttcaac cactcgtacg 120
tcacgcttac tctatatctc gagcagcctt tctataagt 159

<210> 32535

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-A5

<400> 32535

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 ttgcggggcg cagatcttca gattgcttac gggctacagg tataattgcg tgacactcat 120
 ttgactgatt ctaagctcgg aagtgcaa atgttcttgag ctatcacatg atctacagac 180
 tgatcctgta gcttgatact gcgtatactg ttctttacag atgcatcgta tgcaatgcgg 240
 caggaccatc tgcagagttc agaactcatt catgagcgac aacacgaa 288

<210> 32536
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-D4

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 ttgcgaagaa gggctacatc ccgctcacca cctacctncc cactacaag atcggcgatt 180
 acgtcgatgt caaagtgaac ggcgccgtcc acaaggggat gccgcacaag ttctaccacg 240
 gccgcaccgg tcgctcttgg aacgtcacca agcgcgccat cggcgctcgag gtcaacaagc 300
 aagtcaatgg gcgcacatc aggaagcgta tccatgtccg tgtggagcat gtgc 354

<210> 32537
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D8

<400> 32537
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<210> 32538
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D9

<400> 32538

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agctgtccga ggcggagatc cggcagctct gcgtagaggg caagcgggtg ctctctccc 180

agcccaatct cctccgaatc cacgcccag tcaagatctg cggtgatata catggccagt 240

ttgtcgacct tctgagatta ttcgatttgg gtggttatcc tccagcttca acttacgtat 300

tcctcggaga ctatgtcgat agaagcaaac agagcctgga gactatatgc ttgctgctgg 360

cgtacaaaat ccggtacccc gaaaatattt tcctgttgag gggtaaccac gaggatgcaa 420

agatcaacag agtctatggt tttta 445

<210> 32539

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E11

<400> 32539

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aaggttatgc gggattcgaa tgggtgtcagc agaggttctg gatttggtgc tttcaaactc 120

gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatggttgg aagcaagccc 180

ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaagctaca ggcacaattt 240

tcacaaatgc gtctgttgc aatggcgcct tcagtaggtc ctgcgatgcc catgtttcca 300

cctggtgtcc ctggagttgg tcagcagctg ttctatggtc agccaccacc agccttcata 360

aaccctcagg ctggatttgc tttccagcaa cctctgatgc ctggtatgag gcctggtggt 420

ccaatgccga actttatgat g 441

<210> 32540

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E2

<400> 32540

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 agatggtgca gggcctgacc taccgaaagc gtcacagcta cgcgacaaaa tccaatcaga 120
 cccgggtcgt gaagacccca ggtgggaagc ttgtgtacca atacaccaag aagagggcga 180
 gcggtcccaa gtgccccgtc accgggaaga agatccaggg gatccccac ttgagacctg 240
 ccgagtacaa gaggtccagg ttgtctagga accacaggac tggttaaccgt ccttatggtg 300
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<210> 32541

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-E5

<400> 32541

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 cttgcatgct tgcagctgct ctgctcgttg caacgacggt tgcgtccatt cctacaaccg 120
 tgcactccat cggcgtctgc tacggcacgc tgggcaacaa cctgccgtcc agcagcgacg 180
 tgggtgcagct ctacaggtcc aagggcatca aaggcatgcg catctactcc cccgacgcca 240
 aagccctcgc cgccctgcgc aactccggca tcgcgtcat cctcgacacc ggcaacggcg 300
 gcggcgctct gggccagctc gccaggagcg cctcgctcgc ggactcgtgg gtgcagagca 360
 acgtgcggcc ctactacccc gncgtcggca ttaagtacgt cgcggtgggc aacgaggtgc 420
 anggcgacca cagcgc 437

<210> 32542

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-E6

<400> 32542

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 gagacaggag cggaccgcgg ctggccaagg agctcggcag gatcgagccc aagaagctgg 120

gcacgcgggct ggttgccggc tgctgcttcg cgctgctcac ctacctctcc ttgccccggc 180
 tgtttgccat ctactcgccg gttttcgaca gctcgctcgc catggtgttg aagaacatgc 240
 cgncagcaac gacgacggtg ccgggtacag ctacaggggc gc 282

<210> 32543
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E7

<400> 32543

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 ggaaagcaaa aataaaccaa tattagagaa tccaaaccaa aataatccaa catataaaat 120
 cttatcatct ctactatttc ccctactgc aatgcactga ccaacttctt acaatttgtc 180
 cacttgtaa acctctactt tacccaactt a 211

<210> 32544
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E9

<400> 32544

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 gccggacggg atcgtcagag aggaatcgca aagagggcca gctcatccga gttaaggaag 120
 ccatggagca caaggaggct gcgtgccacg cccccgaggg acccatcctc tgcataata 180
 actgtggctt cttcggcagc gcggcgacca tgaacatgtg ctctaagtgc cacaaggaga 240
 tgattacgaa tcaggatcag gccaagctgg ctgcctcctc tatcgacagc attgtgaacg 300
 gcagcgacac cgtcatggag ccgatgttg ctggcagcaa cactgtagta gctgttgccc 360
 aagtcgcact gcgaacaatg aacgtgcac aaccgcgtga tggtgcccga ccagctagg 420
 ggggtggcggc tatctacaaa ggg 443

<210> 32545
 <211> 424
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F10

<400> 32545

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ggacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa  120
gaggggaacg gggatgagtt gcgggtttac ctctgctgtg atatattgta ggtgccacta  180
tgtgtattgt tccccctat ctactacgtg gcataagttg tattctagta tgttgaaagc  240
tcatggtgcc gtgctgtatc aataaagttg tatgcgcata gagtggctca agaccaaggc  300
tgcgtttgcg ctttgccact ggcttgggtg tatggttctt ctgctgctat gccattaggg  360
tttaaggatt gtgtgtggat ggcgctcgtc ttgtagtggt aactggattt gaagcggact  420
acat                                                                 424

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<210> 32546

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F11

<400> 32546

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ctgcagatcc aggatggccg tcctccttga gaccttgcc ccccgagtgc tctcggtgag  120
ctactttggt tcgatttata aggaaatccg ttgcttcat gttgtgcagg ctcatatctg  180
attgctggat tcggcaaacc cgcgttggat cctgtatcgg ttagtccttg cctgcaaggt  240
tcttgttggt ttgttttggt ggtcgagcat cgcatttct gcttctggat ccagatctgg  300
agaaatcgcg aagtcgtcgt cgttcgggtc ggagcggatc tgaggcgacg atagatggag  360
gcggcgggat ctctcggctc gcagtcctgc tccacctcga tggatgatgt ctctgcgctg  420
ataattattg gatca                                                                 435

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<210> 32547

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F12

<400> 32547

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agggttatgc gggattcgaa ggggtgtcagc agaggttctg gatttggtgc tctcaaattct 120
gctgaagatg ctaaccgagc tcttacggag atgaatggca aaatggttgg aagcaagccc 180
ctttatgtag ctcttgcgca gcgtaaagaa gacagaaagg caaaactaca agcacaattt 240
tcacaaatgc gtctgttgc aatggcgcct tcaataagtc ctgcgatgcc catgtttcca 300
cctggtgtcc ctggaattgg tcagcaactt gtctatggtc aatcaccacc agcctttatc 360
aacccttatg cttgatttgc t 381

<210> 32548

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F3

<400> 32548

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cagcggcagg tgtattgtgc gggatatgtaa tggatttgca actatattgg gtgtaaaacc 120
ataataaatg tgggcaaata tgcaaggaaa aatactggat ttctagcaag 170

<210> 32549

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F4

<400> 32549

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actgcttctg ggttgatttg ggacagagtc cacttggttc aaaccattca gagcaatcaa 120
gcaagggaaa attgggctct ccattgccag catcctggtt ttctggcagg aagagtgtc 180
agaaagcgtc acccaaagtg ccattcaaac tgtcaaggag tcctattcat gataaccatg 240
ttatgtcatt tgatgcaacc gtgaagtctg tatcacaaga gcccaggccc gataaagggg 300

atctggatga agataattca catattaaca tcaagaatac tcctatcagc gagattgaag 360
aagataataa agatgctaaa g 381

<210> 32550
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F5

<400> 32550

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ccgggctcct tgataacctg cctcacgagt gctctcggtg agctactttg tttcgattta 120
tcaggaaatc cgtttgett c atgttatgca cgctcagatc tgattgctgg attcggcatc 180
ttacgggctt gaatagagct aggactggga gaaaacaaca aaccgcggtt ggatcctgta 240
tcggttagtc catgccttca aggttcatgt atgtctgtat tggtggtcga gcatcgcatg 300
ttctgcttat ggttccagat ctggagaaat t 331

<210> 32551
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-D2

<400> 32551

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ttctgctgta cacaagtcca gagtcttata ttgcgctgcc ttcagatgta catggaccaa 180
aaagaagtgg tcgatgccct cttccaccac tcgaagatag agccctgcat tactgaactt 240
gtttggcgac aacttgagca tcaaaatcct ctggttttca aggcgtatta tatgaggcta 300
atgcttaaga ctcanataat ggtcttcaac aagcttcttc aggatcagtt tgaggttatc 360
aataaagaat tttcttcagg gatcccttct atg 393

<210> 32552
<211> 317

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F7

<400> 32552

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ttatgtaatg cttgaggatg cttcaaattg gttttctagt gctggaactt accatttcaa  180
gtctgaccct gtccaatgca cccgcaaagt gaggtcgacg tgcagctaga cttgacacac  240
tttctgcttt tctagcttat ttgtgtgctt tggtttcttc tatttcaaga gaccgaagcc  300
taaatcaact gaacacc                                     317
  
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<210> 32553
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-F8

<400> 32553

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tgacgggcag caacaagaat gcgcacctca agggcaacgt ggtgctcgtg cgcaagaccg  180
tgctcggttt ggacgtcacc agcatcgccg gctccctcct cgacggcatc ggcgagttcc  240
tcggccgcgg cgtcacctgc cagcttatca gctccaccgt cgtcgaccct aacaacggca  300
accgcgggaa gttgggcgcg gaggcgagcc tggagcagtg gctgctgaac ccgccgtcgc  360
ttctgtccag cgagaaccag ttccgcgtca ccttcgactg ggaagtggag aagcagggca  420
tcccgggcgc catcatcgtc aagaacaacc acgc                                     454
  
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<210> 32554
 <211> 379
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-A9

<400> 32554

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ctcgtttcat tatccatggc tgaggagaag caccaccacc accacctgtt ccaccacaag 120

aaggacgagg agcaggccgc ggccggcggg tacggcgagt ccgccgagta cacggaggcc 180

acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg acgagtacaa gaaggaggag 240

aagcagcaca agcacaagca gcacctcggc gaggcggcg ccacgcggc cggcgccttc 300

gcactctacg agaagcacga ggcaagaag gacccggagc acgcgcaccg ncacaagatc 360

gaagaggaag tcgcggcgg 379

<210> 32555

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B1

<400> 32555

aaaaaaaaa aagaaaaaaaa aaaaaaaaaa aaatgacaat cgataataca atgatacaag 60

ctcaaagact cgggcatcca acatcctagg tcttacatac tgtaacgtaa aaccaaata 120

ctgttcagtg acctacaata taaaactgg taacaaccat 160

<210> 32556

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B10

<400> 32556

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gcgggcttat cagtagcaac agtttatgat ccatcaaaat caaggaaaat atgcactgcc 120

ccgcagcttg tgagtgagaa tgaaccacaa aagtatcggg atgtaattta tggtgactat 180

gtctcatctt ggtatagcaa aggtccagag ggcaagcgaa acatcgatgc cctcctgatt 240

cagcactaga gccataagta tgccttaaaa caaggttggg ccatcattc tgttcctaaa 300

cttctaaagc atgtacaata tatcaagttt caactctaaa caatcatgat taggaaacca 360

acttgatatac tggatgcagt gcaataaaagt acctttttcat tgtcaaaaaa taaaaaactat 420
 attt 424

<210> 32557
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B2

<400> 32557

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 agtcaaattg gtttccccct gctctttgtg gtgtacgtgg cgcttcttgg tacctgtatc 180
 gggtagctgc tccgcatatg agttccaaac ttcaaaaaag ttcagcagat gggatattgct 240
 tcgtatgtgg gcaagacaat tgaacggcag atgcactcca aaatgttgag ggggtgaatat 300
 attagcatta ttagttccga acttcatatg gttttgcaca taacagcagt 350

<210> 32558
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B3

<400> 32558

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 cagggtggga aagctgaggt gagcactgga caagtccagc aacagttcca gcaactt 117

<210> 32559
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B4

<400> 32559

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 acaa 64

<210> 32560
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-B5

 <400> 32560

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 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaacgaaa aacataaaaa aaaaaaaagg ctagaatgca ctagcatt 168

<210> 32561
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-B8

 <400> 32561

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 cacagggcca gggtctttca gaagttgcca agatggatat gcagttaaat catctctcaa 120
 agctgaagat ggactgttgt atccacttga aaagggtttc tttttcctgc caaagccacc 180
 tacactcatt cttcatgagg agattgagtt tggtgagttt gaacgtcatg gtgctggggg 240
 tgccagtata tcatctcact attttgacct ctttgtcaaa ctgaaaaatg accaagagca 300
 tctcttcaga aacattcaaa ggaatgaata ccacaacctc ttcaatttca tcaatggaaa 360
 gaacattaaa ataatgaacc ttggaagaga tgggtcaaggt gcaagtgggtg tagttacaga 420
 tgttctacca gacac 435

<210> 32562
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-041-Q1-K1-C1

 <400> 32562

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tcggagatgg ctgcctcacc agctactgct atgaccggct ctctgcaac ggggccgtgg 120
gcccccgcc ggccacgcta gtcgaggtga gcctgcacga ggacgccgag aaggggagct 180
cctacgacgt gagcctgggtg gacgggtaca acctccccgt ggccgtctcc gccaagccag 240
ccacggggcgg cgcggaactcg aacaagtgcg ccatcgccgg ctgcgccaag aacgtgaacg 300
cgggtgtgcc gccgggactg caagtgaccg ctaccggcag cggcngcggc aagacggtgg 360
tggcg 365

<210> 32563
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-041-Q1-K1-C11
<400> 32563

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tctgatgggtg caggaggtga ctatgaggac aatctccata gccattgct gtccaggcag 120
gcaacaggtg cggaaggga ggacattgtg caccatggtc accgtggaag tgctttgagc 180
atgagaaggc aaagcctctt aggggagggg ggagatgggtg tgagcagcac tgatatcggg 240
gggggatggc agcttgcttg gaaatgggtca gagaaggaag gtgagaatgg tagaaaggaa 300
agtgggtggt tcaaaagagt ctacttgac caagagggag ttcttggtc aagaaggggc 360
tcaattgttt cactttccgg tgggtggcgat gttcttgagg gtagtgagtt tgtacatgct 420
gctgcttt 428

<210> 32564
<211> 337
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-041-Q1-K1-C2
<400> 32564

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cgtccagggg gacctgtttg ctgccttcaa gatctgatta tgctctcatg gtctgtattg 180

ttgtatggtt ggaccaaca atattcttgc atccccgact acaggtctga tcgccatgaa 240
agcttctggt catttgagct cgggggagtc cgctagtctt atttttcttg atttctcttg 300
gctttctgga accatacgaa tcaataagaa atgagct 337

<210> 32565
<211> 387
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-C3
<400> 32565

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ggtgaggagt ggtggttggc cgggccatgg gatcctgaag aaggggatcc acggcctgga 120
atcactcaag ctcaggctgt agctggtggt ttctggttgg cggngctctg gcgatcatgt 180
ttagagttca gtggcagtggt agtcatgctt attagtgggt agcttgtgtg tgagttgttt 240
gcgattcatc tctgtgtctg tgtgtgccga gttggttgggt ttgcaatttt tgtcatgtgt 300
gtaaagcctt gcacgccgag caatgctcga tgggtgtgaat gtatatacag aattactatt 360
tggttcaatt caagataaat agtactc 387

<210> 32566
<211> 352
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-041-Q1-K1-C4
<400> 32566

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tgtgaaagtg gttgatattg ttgacacatt ccgtctacag gagcaacctn cttttgacaa 180
gaaatcattt gtgtcttaca tcaaaaaata catcaagaat ctactgctg tgttgagacc 240
agagaaagcg gatgagttca aaaaggggtgt cgaggggtgca accaagtttc tccttagcaa 300
gcttgaggac cttcaatttt tttgtggtga gtccatgaag gatgatgcgt ct 352

<210> 32567
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-C6

 <400> 32567

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 ggaggtggtt tgtgtgggct ttgtggatgt gtaattgggtg ctgatgccat tgtggctgaa 120
 agagagcgga cgaagagcgt tttggtgtct acgtgtgtat acgctgccgg ctgtgggatc 180
 acgagggaga ggggtttcct actatataca tgtgtaaaaa tttgtttcat gtaatcttgt 240
 atctgagtga ccagatcagg tgattatgca g 271

<210> 32568
 <211> 149
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-C7

 <400> 32568

 ctcttcctaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa ttaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaagaaaaaa ttaaaaaaaa aaaaaaaaaa aaaaaaaat aaataaattt 120
 taaaaattat tcaatctaac aaatacaaa 149

<210> 32569
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-041-Q1-K1-A8

 <400> 32569

 atatttagca atttatagac taaaaaggaa taaaataaag ggactaaaca ttagtctcta 60
 gaaagcaaac actccctaaa aatactaaat ctttagattt agttaaaagt tcaccatatt 120
 tgcaccctta caacaaatgt ttatacatca cgaagtcaag tgcacacctc tcaaatttgc 180
 tctataccac tgcacgacgc tcatctcggg acaggcaaca acgcatcatc tcccagcagc 240

acaaacagtg tcaacagaac ggaacagccc aactgctgtt cgccctcccg gccctgccc 300
 ctgcccagtg atctgctgcc cccgagccag ccagtactga tccgg 345

<210> 32570
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C8

<400> 32570

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 agtgctcta gctctagcct ctagccctag ctagtagcta gccactcggc cgtgtagtca 120
 tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180
 accgaggaag cgccggtggc ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct 240
 gccccgcccg ccgaggccaa agtggaggag ccagctgccc cggcggagac cgagccagct 300
 gccgtcgtg agcccgaggc ggccccctg gcggtgatg aagagacgcc aaaggaagaa 360
 gagacggcaa aggaagcgga gccggagccg gaaccggcgg 400

<210> 32571
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D10

<400> 32571

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 tacttcgcgc gtagaatgga acggttgccg agtactaaaa tatggaggct tctattgtac 120
 ccacccactc aggaattat gagccagttg atgagggcatg aattatttca cgacttgccc 180
 gcggttagtg tgaaaaggcg acgctgctat atatggcat cacccttggc ttgtccggtc 240
 gccagatata acgattatca ttttatcgg ttgtaataa agcttcttgc attagcatat 300
 ggtttaatat tttttttcaa atgggatgaa gtcctgcgtg atatcctatc tgtaaatagg 360
 aaggcactag cagatcttga ccaatgtaca actgggtttt tttttgagaa acttgaata 420
 agaattattg gtcacc 436

<210> 32572
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-D12

<400> 32572

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 tggaggggcg atggcgggcg ctgatgtgga gtaccgttgc ttcgtcggcg ggcttgctg 120
 ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tcctcgactc 180
 caaggtcatc accgaccggg agacggggag gtctcgggc ttcggcttcg ttaccttctc 240
 ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300
 taacatcacc gttaaccagg cccagtcctg tggcggtggc ggtggcgcg gtggctacgg 360
 cggcagtcgc agcggcagcg gctattgtgg cgggcgcctg gacggcggtt attgcggcgg 420
 tggc 424

<210> 32573
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H4

<400> 32573

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 aaaataaaaa aaaataaaaa aaggagaaaa taaaagaaaa aataaaaaata aaatatatac 120
 aaatacaacc taaaattaaa aacccttcaa tataacttcc ttgctccatt cttaaattcc 180
 ctaacttcta tcaatttccc cattttatac atcaaccttc tttaaaaaaa ccttcctatt 240
 ccctaaccct tttactttca taaaacttcc cctttccctt cctttttatc tttaaataaa 300
 ttcccccttt aacaaatt 318

<210> 32574
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H6

<400> 32574

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cagcagaagc atggtcagag agcagctgcg cccggcgtga acgccgacca gaagaccttc 120
ctgccgggct acgtcggcgg cgtcggaggg ttctgctggcg ccggcgccgg cctcgggggc 180
atcggaggcg ttgcgggagg cattggcggg atgactggcg gtggtgtcgg cgtgtcgtc 240
ggtggtggac tcggagggtt tggaccgctt ggtggtgctg gaagcggatc aggccttggt 300
ggcgggtcag gtctcggcgg ccttggtggt ctccggcggtg gcggcgccct tggccttggt 360
ggcggctcag gatcgggtct gggccgcagc ggcggccttg gcggtggcag tgggctcggg 420

<210> 32575

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-H7

<400> 32575

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tgctctagct ggagcctcta gccctagcta gtagctagcc actcggtcgt gtagtcatca 120
gccttctgat cgtcaccat gccactgcc gaggtccaga ccccgaccgt cgtggcgacc 180
gaggaagcgc cgggtggtgga gaccccggt cgcggcgccg tcgtgcccga ggaggctgcc 240
cccggcgccg aggccaaggt ggaggagcca gctgccccgg cggagaccga gccagctgcc 300
gncgctgagc ccgaggcggc ccccggtggcg gccgaaggag aaacccccaa 350

<210> 32576

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H8

<400> 32576

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cgtatatcaa ttcggatata tacaaatata tacagaaatg caagcataga ggataggctc 120
atggcttggc tcattgcttt ggaaatagac atggtacatg ccataatata taacaaggaa 180
caggagagcc aactgaatag ccagatgcat gtaaggatcc ataagagatc atagaagaga 240
tcactttaat agcaagctta tctactagaa tttctagatt cattagatga tcgattacat 300
aagataatac gtactattct aagttctata caatagcctg aag 343

<210> 32577

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H9

<400> 32577

aaaacacaat aaacctcaca taaaaacaaa tcaaacaaac aaacaaaaaa aagccaaaca 60
tgcaaacact aaaaaacaac ataattaaca ctctattac accacctaac aatcatatca 120
ctaaacctca cccaacatca taactaacat acaaaacca cctacttacc ctacttaaac 180
catacttaat tacatccc 198

<210> 32578

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-A5

<400> 32578

cccacgcgtc cggcgaaaaa ctttcttttt caaacaaaac ctcgataaaa gcggagacca 60
tctaacgaga ccggcaggcc ttcttaacag aaccctcaaa cccaacaaac ttcggaacct 120
acaatgtcat acaccccaaa ccccccgca acaccaacac ctgaagccaa aacgaagagc 180
cgaaccccac tagataccca cacaatacct aaaaccacgg taaacgtagc ggctacatca 240
ttacccacccg aagctccac tcaacctaca cccatcaca c 281

<210> 32579

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B1

<400> 32579

aaaaaaaaa aaggatttta attttagga aattaaaaa aaaaaaccaa aaagggaaaa 60
aagaaaaagg gccaaagccc cctaaaaaaa ttaatttttt aacccccccc cccaacaaca 120
aaacaactaa aaaaacaaac aaaaaaccaa aaaaactaaa caaaaaaaaa tacatacaaa 180
aaaccaacac acc 193

<210> 32580

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-B12

<400> 32580

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tctggtatca tccctgagca ctgatttaag atgtatctcc agtactacat caacgagaag 120
ggggacaagg ttacaccac caagaaagag tcacctcttg gggtgccaac gcaatctgct 180
caccagctc gggttctcacc tgatga 206

<210> 32581

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-C10

<400> 32581

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ctgagctcaa ctctatctct tcaagctctg tatcatccct atcctgatta agattatctc 120
catactacat caacagaagg gggacaaggt ctacaccacc aaaagagtac ctcttgggtc 180
caacgcatct gctcaccac tcgttctacc tgatgacaag tactct 226

<210> 32582

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-D4

<400> 32582

aaaataaaaa aaaaaaaaag aaaaataaaa aaaatataaa aaataataaa aaaaaataa 60
aaaataaaaa aataaaaaga aaataaataa aaaaaatatt aaataaatag aaaaaaata 120
taataaatat aaaaaataa aaataaaaat aaaaaaata taaatataaa aataaaaaaa 180
aaaaaaaaa aaaaaataaa aataaaaaaa aataaaaaat aaaaaaaaaa aataaaaaat 240
aaaaataaat aaaaaaaaaa aaaaaaaaaa aa 272

<210> 32583

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-040-Q1-K1-F1

<400> 32583

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tttatcg tan taaattttac aatctgggga aatctataac agaggctcat actccttaac 120
catcataagc tcgatcatca aaaaaatata actactttgt acaccatcat gactctataa 180
gtatacatga tataagatca atatatactt cttttatgat aacatatcat gttccttctc 240
tatttggtat cactgataat tctctcaatt catcaaacca tatatctcct ttatctatta 300
tcaaactatc cataaacaat tctgcaaatt ttcaacaaat taatac 346

<210> 32584

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-G5

<400> 32584

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ttggccgtct acgaggatct gcaccacgtc aggatgacga ctctgatgaa cctcaagatc 120
atgacttcaa cgtgcaagag gatcgtgaag gagctgctct cgtacgataa ggatgtgtac 180
aaggacgctt tcaagaccga cgacatgaag gacaacggct ctgatcccta cgacctcaaa 240

catcacgaga atgttttggc tgagtcaagg atgattgtcc cagactgtca caaacgactt 300
gaaactgcac tttcttactc gaaagcaaca ctggcttaac tgaaggagtc aaatgatcaa 360
ggtacctata ttgtacaaac tgatagtaca atcgacaaag tttgaatcat t 411

<210> 32585
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-H2

<400> 32585

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ataaaaacaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 120
aaaaaaaaa aatataaaca aaaaaataaa aaaataaaac aaaaaaaaaa aaacaataaa 180
aaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aataataata 240
aaaaaaaaa aaataaaaca aaacaaaaaa aaacaaa 277

<210> 32586
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-H5

<400> 32586

aaaaaaaaac tagaaataaa caaaaaagac aaacaaaaaa aagaaaaagt ttaaagcaa 60
aaaaggcccg ccaaaaaaaaa aaacaaacaa taaaaacaaa caacaaaaaa aataaacctt 120
ataaaaaaaaa caacaaacaa aataatcaaa aacaaaaaca aaaacaccca aaacaaaaaa 180
aaccaaaaat aaaacacaaa accccaaaaa aaaaacaaca acaaaaaaaaa aaacccaaaa 240
aacccaaaaa aaaaaataac aaaacaaaaa 270

<210> 32587
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A1

<400> 32587

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ttgtgaaccc agtatggcaa acgcgccgag gatcctggcc ctcggcctgc tagcgctcct 120
gtgcgctgcc gccggcccgg ccgccgcgca gaactgcggc tgccagccta acttctgctg 180
cagcaagttc ggctactgcg gcacgaccga cgcctactgc ggcgacgggt gccagtgcgg 240
cccgtgccgc tcgggcggcg gcggcgccgg aggcggaggc ggaggcgga gcaagtgcgg 300
tgccaacgtg gctaactgg tcagcgacgc gttcttcaac ggcataaga a 351

<210> 32588

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-H2

<400> 32588

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gtttttttgt ggcaaagaaa taacaagcat atttataaga atatccattt tggcactgga 120
at ttggccct acttcagttt actaaattat gatctgccac ttcattgtcac tctgtcctg 180
tgtacattca tcaagaacaa gatgcagaag aacgaacctt aatctatcta tgtatgtaaa 240
gcctaaactc ccacccaaat taacaatgga tcgatcaatt ggagtccaag gcaatcaatg 300
gtaacagcaa cagttctata tataact 326

<210> 32589

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-A11

<400> 32589

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atcctcgagg gcccgcgcg cgccaccgag cgtatcgttt tggtttctgg aaaagaagat 120
ccaggcttgg agctatctcc agccatggat gctctcatga gagtttttaa gcgtgtcatt 180
gggataacag atggagctgc ggagggcact caggctgctg ctactcctgg tgtatgtgct 240

gcccgattgt tggttcctgg agctcaggca attaacctaa ttgggaagca agtgccact 300
atcaaagcaa tccaggagag cacgggtgct acaatacggg taatatcagt agatgaacat 360
gagagaccat tttatgtaac tgacgatgaa aggatagttg agatacaggg cgatacagag 420
aaagttctaa aagcactgca agcag 445

<210> 32590
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-041-Q1-K1-A12
<400> 32590

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tcgaccagct ccagatccgc gacagcctga gaatgtacaa ttcgctggtg gagaggtgct 120
tcacggactg cgtggacacg ttccggcgca agaacctgga caagcaagag gagtcttgcg 180
tccgccggtg cgcggagaag ttctgaagc actccatgag ggtcggcatg aggttcgccg 240
agcttaacca gggcgtggcc acgccggact aagaaacatg ctgctgctgg ctgtggccgc 300
caggtttctg gctttgctgg cacagatttg tagccgacaa aaggatttca gcactttcgc 360
tgctgagat atatgcgtct taaagccgaa cgctgggtgt cagattgaat aaaaactgcc 420
ttgag 425

<210> 32591
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-041-Q1-K1-A7
<400> 32591

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gcacagatgg cgctgtacat ggcgtacagc aggaacagga agcccgggc gccgctggtg 120
atactaccgg agcagtccaa ggaggaggcg gccgagggca aggccagctg cggcggcgcc 180
gaggtgcacc ccatcgacat cgcggaggtc cacgacctgc aggccgtggt cgtcgacgta 240
gacgtggagc ctgtcaccta cgccgctgcg tccggtatgg tcgacggcag tgcggcagg 300

cctagggcgc cggagcagct ggtgatcaag cccgacatgg tcaccgtcat tgcggcg 357

<210> 32592

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E2

<400> 32592

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tccgggggttt cattggccag cgggggcgca cccgacacct ctcgatgtgc ggtgctcttc 120

cggccgctgg accctacctc cggctgaacc gattccaagg ttggctggcc ctttaagcaga 180

aaagataact cttcccgagg cccccgccgg cgtctacgga cttcctaacg tcgccgtctg 240

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ccgctatct 309

<210> 32593

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E7

<400> 32593

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tttcagcttc ggtctcgggtg cttttgcttg ctctcacaga ttgagatgct ggaggagcac 120

atcttgccct cgttgaatgg gctctgttgt tgaaggactg atagtgttg taaaaaatg 180

ggattgtgca gtgagcgggt gattggcaag gggaaagatt gggatgggtcc agtaagtga 240

caggcgacag ggatgtggcc ttaagccccg ttgcccatgg gatggttgcc gggttgagct 300

gaggtggcat gatgacgatg ctggttcttg ctttgccatg tgcaatcgtg gcacca 356

<210> 32594

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-E8

<400> 32594

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cgcacgcgga gcatggaccc gcgaggtccg ctgaggcggc cccctgctac gaccggttcc 120

ccttggacga catcgacgat gcgtgcgagc tgcggtggtg atcgtcgtag gaggcggcaa 180

accccgcggc gtcgactacg aagtagcgcg aggcggcgct gcgcacggca acgacggccg 240

cggagaagag cagcagcccc acgaccgacg cttggatcac cgccgaaagg tccagtccca 300

agcccgcgcc cgcgcccgcg ccaccgtctt cgggtccgac cccagcatc taat 354

<210> 32595

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F10

<400> 32595

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agaaaaaaaa gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaat acaataaaaa 120

aaaaaaaaaa ataggttgag tgacaagggg tccaaacatt caaccaacga ttttctaaga 180

tgtacaggac ggtatgaaga ttgctaaaag aagagatatt cgcccctgtg caaacgatcc 240

tcatggtaaa 250

<210> 32596

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F11

<400> 32596

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agctgtactg aaatgctgcc acaagggctg gcgaacctac gtcacgtca gcctcgccga 120

ctctggccag gatatcgcca cagcaccatt ccagctcgtg actgggcgtg tctggaaggg 180

aaccgctttc gatggcttca acagccggac ccaggtecca tggcttgttg acaagtacat 240

gaaaaatgaa attaaggtgg acgagtacat tacgcacaac atgaacctgg ctgacatcaa 300

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332

<210> 32597

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F12

<400> 32597

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ggaccaaaag gagaaattgt ggcccatgtt gcaaaagctt aatgttacca tgaaggctga 120
tgagaaggag ttgattggca aagctttgat gaagcgtgtt atgcaaactg ggctaccagc 180
cagcactgca cttcttgaga tgatgatatt ccaccttcct tccccggcaa aggctcaaaa 240
gtatcgtgtg gagaacttgt atgagggacc ccttgatgat gtttatgcaa ctgctatcag 300
aaactgtgat ccggagggcc ctcttatgct gtatgtttca aagatgattc cagcatctga 360
caagggcagg ttctttgcgc tttggtcgtg tcttctcagg gaaggttgct actggtatga 420
aagttcggat catgggtccc aactatg 447

<210> 32598

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F2

<400> 32598

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gaccagaagt gctacatcta tctctctgga caggtgatgg acaagcttgc caagatcgac 120
ccttactttg ccaagctcgg tgacgccatg gtcacctgga tcgacgctg tgatgagctg 180
aaccgggatg gaccgcggc tgggaaagac acggacaagt agatgggagt ccctgacgat 240
gcattcactt acctgc 256

<210> 32599

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F4

<400> 32599

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actgggtcgt ctggggggcc aacgaccgtt cagcatactt ccgttagtag catcatcacc 120
acatccatgt tccacaacat actgagccac cgcagataca gcatttgccc atgcaccttt 180
tacacctacc acaccttaat cgaagccttc agcaagttac ccagctactg caccacctgc 240
gaccatccaa accgcctgca caagctcgac agcttcttct gccagacgta ccactaaacc 300
accggatcat ttaccac 317

<210> 32600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F6

<400> 32600

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atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
tacgacgctt tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca ggcgggagct cgccgccttc ttcggccaga cgtcccacga aaccaccggt 300
ggatggggca ctgctccgga tggaccgttt gcttggggat actgccgggt gaaggaacag 360
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taa 413

<210> 32601

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F7

<400> 32601

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cgaaaaaaaa gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120

aaaatataaa aaaaaataa ttaacaaaag caaacatatg ataatattaa attctcatTT 180
 taaacctata aatcataatt cgtggcagac aatatataac ctcaattact gttaaaacaa 240
 ataacgatca caaacttaat caa 263

<210> 32602
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-F8

<400> 32602

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 ggtcgtcccc agccccacgg ccgctgcgtc gccttccccct ctcggtcgaa accacaacgg 120
 cctcttccgg cataacaata tgcaccgaat attcagctca tccgctctcc tataaaaacg 180
 aagcgcaaat ccaaaaaaaaa aaaaaccccg ccgcgacgac gcattgtccg ttccgtttgg 240
 acccatgata tatctcgctg ggatcttgac cgtgcgcgag acgaatctcc tcgtgcggta 300
 accgataccc cccaagtcaa aaatcagccc ataaaatttt tatgggcgga ggatcacccg 360
 tcgccgcagt tcacgacgcg agcgacgacg gcgccagggt cgtggtgcta gtcgcgg 417

<210> 32603
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G10

<400> 32603

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 gacttattag ataaaccctc tcccacctag caatacctat ctcataccat caacgctctt 120
 taccccaact tcctgtgctg aactcagatc aagtggtgca tccacacctc cctctactgc 180
 agcaccgcac tccataacca gatcatattc cactttagtt tcaccccaaa ccctccaaac 240
 aatcgcgctcg agaactccat tatcccacaa tctctatata accat 285

<210> 32604
 <211> 357

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G12

<400> 32604

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 cgctgcctgt ggttgatctt tggaataatc aacatgatcc tgggtgggcag tgccggtgcg 120
 ggtcaaagct ctgtggggcca tctttaccga agcagcgagc ccgccaaacc aaccatggca 180
 ccagctgtaa gtgctcgacg tgctgagaaa ccatatgggtg ccaagactga cgcgggcaag 240
 cagcagctg ctggaggtac caaccaaagc aatagctacc acaaggctga tgggcagaac 300
 actggcaagt tgcatacaga ccgtcctgta tacaacgtgc acgctgggtgc tggcggt 357

<210> 32605
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G2

<400> 32605

atctcctacc atcctacagc ttccaccag catttggtgc cccgtatcct tggatcatccc 60
 cagaccact tccgcttcgt atcctttccc tctctgtcta aaccacaaca gcctcttcca 120
 gcataacaat attcacctaa tattcagctc atccgctctc ctataaaaac gaaacgcaaa 180
 tccaaaaaaa aaaaaacccc ttcctcacga cacattgtcc gtcctctttt gacccatgat 240
 atatctctct tggatct 257

<210> 32606
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G6

<400> 32606

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 gtcttcttgg gtgaccacgc ctccgcgcac catcgcgtct ccagcatcat caccocgccc 120
 atgttccata gcattctcat ccaccgccac aactgcgggt tccattgctc cttctacacc 180

taccacgcat tcatacaaga catcagcaac ttcccaaact tctttaccac cgtctactag 240
cacac 245

<210> 32607
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-G9

<400> 32607

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ctcctctact acaaagcatc ttgggcacc tttctaactt tttaacatat ttgccatccc 120
atccaaactc ctcatcttac aattttcttcc tcacatatca ttctgctat accctgcctt 180
ccaacctata ttatagactt atccccactt tcaacctact gactatgtta aataacgtca 240
aaaccacttc tatctcactt acacctctat tctccactt atcctacaac tttctaacta 300
ttttacacaa tcttacta 318

<210> 32608
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-039-Q1-K1-E12

<400> 32608

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caacaagatg ttgcgctaca ttaggtatgg tgttgacggg ggagctaccc ttgtgacggg 120
tggtgatagg ttgggtgaca agggtttcta catccagcca acgattttct cagatgtcca 180
ggacggcatg aagattgctc aggaggagat atttgggcct gtgcagtcga tcctcaagtt 240
caaagacctc aatgaggtta tcaagagggc aaacgcgagc cagtatggat tggccgcccg 300
cgtgttcacc aacagcctgg acacggccaa caccctgacg cgcgcgctca gggccgggac 360
cgtctgggtg aactgcnttc gacgtcttcg atgctgcgat tccgtttggt ggggtacaaga 420
tgagcggcat cgggagggga 439

<210> 32609
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H10

 <400> 32609

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 gccgtctccc ttttgcgtga gcagaggaaa gagggggaga agagcagtcg ccatgtctgt 120
 catcatccac aagatcgagg agaagctcca catggggggc gaccacaaga cggaggatga 180
 gcaccacaag aaggccgacg agcaccacaa gaaggaggag gtggagcacc acatgaagga 240
 cggcgtagag catatggaag gcatcgtgga gaagatcaag gacaagatca ccggcgagca 300
 cggcgacaag tccggcgacc acattgcaaa gaagga 336

<210> 32610
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H11

 <400> 32610

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 gagattagca atcgccatgt ctggcatcat ccacaagatc gaggagaagc tccacatgcc 120
 gggcgaccac aagaaggaag atgagcacca caagaatgcc gacgatcacc acacgaaaga 180
 ggagggggag caccacacga aggaccgctc ctagcataaa gaatgcatca tagacaagat 240
 caaggacaag atcaccggcg agca 264

<210> 32611
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-H12

 <400> 32611

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ggtgaaggag aaatttgaaa agaattgttca agaggtagct gagaagttcc aaaacacaaa 120
 cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgctg aactctttgc 180
 tgagtatggc aatattactt cctgcaaggt tatgctggat tcgaatgggt tcagcagagg 240
 ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagattaa 300
 tggcaaaatg gttggaagca agccccctta tgtaactctt gcgcacgta aaaaaaacac 360
 gaaggcaaag cttctacgcc caatttttac aaa 393

<210> 32612

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32612

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 tgggtggtctt ctggttgctg cttccattaa tcagaggcct gatctctttg gatgtgctct 120
 cgctcatggt ggcgtcatgg acatgctccg ttttcacaag tttaaatg gtcacatg 180
 gactacagac tatggttgtt cagataagga agaagagttc cagtgggtca ttaaataattc 240
 tccccctcat aatgtacgga gaccttggga gcaaagctct ggtaataact gccagtatcc 300
 agcaaccatg ttgttgacag ctgatcatga cgatcgtgtt gtgccattgc attcactgaa 360
 gttattagcc nactttgcag catgtcctgt gtaccagcac tgaggacagt ccgcagacga 420
 atccaataat tggtcgcatt 440

<210> 32613

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C1

<400> 32613

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 gattgtttct ctgggtgggg gctgatggga agtaaatact gcaccgggtga catatctgaa 120
 gcccaaagct atgctgccga cattgattcc atcagggagg cgcacgccc cattgcgccg 180

tacgttcaca ggacgcccgt tatgtcgtcg acgtccattg atgccatggg ggggaagaaa 240
ctctttttta agtgccagtg ctttcagaaa gcgggcgcat tcaagatccg aagtgtctcg 300
aatcgcgatat tcgcact 317

<210> 32614
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-039-Q1-K1-C10
<400> 32614

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ttttataaca cgcagacata gagctatagg ggggttggtgca gcacgagata atgatgacta 120
cccctagacg agctgcctaa ggtgctgaac gaacgaaact tacaacatgc taaccttctt 180
ggtctaccta ataaccacca tgctgctaata ggcactaacg ctcatcatat aactctcgag 240
tcaggattaa attgtgtatg ccaccacacac tgggtacatcc agagcactta tgccacaaat 300
cgccaatgcc tttagcgaag cctgcactgc ctatgcagca acattgcgag acacgcttac 360
atatcacatg ccaac 375

<210> 32615
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-039-Q1-K1-C12
<400> 32615

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ctcgagttta actgcaacag gaatgggctc gagtatccaa gttgaaccct ctacggatga 120
gttagatgag gccatacaac ctctgacga tgacatgggc atctcatcat ctgcgtgggt 180
agaagtagag cgtcaagaac tagaagtcac tgtttcgagt gaaaatgtat ttgttgagga 240
tgtaacttct ccaggaattg caccattgcc gtcacaaagc ccaagagtgc gtcattcggt 300
gtcacaaatg ctgcaagcag atcgcaatga accagaaatt atcgagtggg gaaatgctga 360
aaaccacccc gcaatagttt ttcataagga ttctgcacca atgattcaag aggccttctaa 420

agtctgctcg aaaaacaagg gagacaacaa tg

452

<210> 32616

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C2

<400> 32616

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tgattgtaac taaataccga accactgaca tatcaaaatc ccaatactat gctgcctaca 120

ttaattccat c 131

<210> 32617

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C3

<400> 32617

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tgtcagatcc atatagcaag gattaacaca ggggtccaag acaatagttg gacggaccag 120

tgggcaagtc tacctggtca cagattacaa tatgggtcatg gctgacctta tgagctcaaa 180

actgtaaaaa catcaacagc accagtgctt ggtaaagttg gctccagctt cttgaccgag 240

tcacggattc tgccggcgat ctaatg 266

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-C4

<400> 32618

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cttcctcccg gtgtcttaaa cattgtgaca ggattaggtc ctgatgctgg tgctcctttg 120

tcagcacacc cagatgttga caaggtcgct ttactggga gttttgaaac tggtaagaag 180

attatggcgg ctgcagctcc tatggttaag cctgttacac tggaacttgg tggaaaaagt 240
cctatagtag tatttgatga tgttgacatt gacaaagctg ttgagtggac tctgtttggg 300
tgcttttggg ccaatggtea gatttgcagc gcaacatctc gtcttct 347

<210> 32619
<211> 196
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-039-Q1-K1-C6

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tcgtgcttcc ttccaaagtc ttaaacattg ttacacgatt aggtcctgat gctggtgctc 120
ctttgtcagc acaccagat gttgacaaaag tcgcttttac tgggaatttt gaaactggta 180
agaacattat agctgc 196

<210> 32620
<211> 244
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-039-Q1-K1-C8

<400> 32620
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aaagggaaaa aataaggga cctgcctccg ttttaaagat tcctacctta ctatccctta 120
cttccgccac tacagattta acacacggag acgttaataa agttacttgc cctccgattt 180
ataacattac tactgtgaaa acccttgcta ctctaattt aatctactat cagaaaatct 240
ccct 244

<210> 32621
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-039-Q1-K1-D1

<400> 32621

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cgtcctatca atgtcgtaag gattgtcaca ggattacgac ctaatgctgg tactcctcag 120

tcagcacacc cacatgatga cataggtcgc tgttactgat agctttgaaa ctggtaagaa 180

gattatggca gctgcagctc ctatgggtaa gccagatata ctggaacttg gtggaaaaag 240

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<210> 32622

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D12

<400> 32622

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cagctgcatt tgggtctcctg ctgcctcacc aaccgcgcc atggctgctg gcgcaacgctc 120

tacgacacca taccctaggc ccagaggctc tacctcaacg gatgggtccgt gttccacacc 180

atccacctgg tgcgtgatgg ccaccaggac atggcactcg gcgacctgct caggaggaag 240

tcgcaggacg gcgtgcaggt gttgttgctc gtggggacga tcccacgtcc tggagcactt 300

tagcatcaag atggtaccag gcatatggtt caccgggtgg ctccaaatga aaggttacat 360

gggcacaagg gatgaagggtg actcagagat ttttttagcg ctcttcggtc ctaatacggc 420

tttgcccacg atctgctagg aaaa 444

<210> 32623

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D3

<400> 32623

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ataggttgga aaaatggtgt tttcaaaacta gcccttagat aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aagaaaaaaaa atataaaaga tacaagaaaa 160

<210> 32624
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-D4

 <400> 32624

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 agaaaagaga gagagtagcc acttgctagt agctggttca gtgccccggc aaattaatgg 120
 ccatctccct ggtaaaggta gtcgaatgtt cttgtaatct tgtcaattgg aagctacact 180
 gcactggatg catgcccacc agtcgaactg agcatgcgat tttttccctc ggtcgcgccc 240
 ggggtcatgta ttgtagtact cctcagtgtc tttttattta ttgctgaata gtgcaaaatt 300
 atgctatcca gcgac 315

<210> 32625
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-039-Q1-K1-D5

 <400> 32625

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 acgttatgct ggcttttggg actccagaaa agcaaatctt gattgaacct atatttgccc 120
 aatggataca atctgctcat ggtaagacga catatggggt cgatatactc ttatcttcaa 180
 cgaatggccc cgctttcaat gcatgtcgaa acatatgggt gcccgatgg ttgaatgctg 240
 ttaatgagaa tagtaattcg cttttcttaa caataggacc tgggtatttc ttggttcatt 300
 a 301

<210> 32626
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 32626

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 tacgtgaatc ggtgaataaa aaagagaaaa agaaaagaaa agagagagag tagccacttg 120
 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240
 aactgagcat gcgatttttt cctcgggtcg cgcccggtc atgtattgta gtactcctca 300
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<210> 32627

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B4

<400> 32627

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 gcccaaggct atgctgccga cattgattcc atcagggagg cgcaggcccg cattgcgccg 180
 tacgttcaca ggacgcccgt tatgtcgctg acgtccatcg atgccatggt ggggaagaag 240
 ctctttcttca agtgcgagtg cttccagaaa gcgggcgcat tcaagatccg aggtgcttcg 300
 aattcgatat tcgcacttga cgatgagcaa gtatcaaagg gcgttgtgac acatagcagt 360
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<210> 32628

<211> 353

<212> DNA

<213> Zea mays

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<400> 32628

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 ctagtagctg gttcagtgcc ccggcaaatt aatggccatc tccctggtaa aggtagtcga 180
 atgttcttgt aatcttgtca attggaagct aactgcact ggatgcatgc ccaccagtcg 240

aactgagcat gcgattatTTT cctcgggtcg cgccccgggtc atgtattgta gtactcctca 300
 gtgtctTTTTT atttattgct gaatagtgcA aaattatgct atccagcgac aaa 353

<210> 32629
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D8

<400> 32629

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 aatcgtatga attaaaaccc acagaaagcc accaaaaaac acacaatatc cacttcctat 120
 tcactccctc aacccccctt caaactaaac cccatctccc tttcaaacc actcgaatgt 180
 caatgtaaac ttatcaatag gaccctacac tccacttcat acatgccac cactccaact 240
 taccatccaa accttctcct ca 262

<210> 32630
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-D9

<400> 32630

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 aaaaaaaaaa aaaaaaaaaa aaaaatgaaa aatataaaaa aaaaaaaaat aaccaaaaat 120
 aataaaataa aaactataaa aaaaaaaaat aattatacta ttttatacta tccaatctta 180
 ctttctcttt cat 193

<210> 32631
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-039-Q1-K1-E11

<400> 32631

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gtcgcgcaac atcagagcac aagcgaggaa cccagtccag tcccgggaat ggagtgcgta 120
ttggggcgtg ttggccgcga cttcgcgctg gtggcgcccg acacttccgc cgtgcagagt 180
attctcgtcc acaagaccga cgaggacaag gtgatgggtc tcgactcgca aaagctgatg 240
ggcgcttcag gggagcctgg tgatcgggtg caatttacgg agtttatata gaagaacctn 300
cacctgtacc agttccggaa caccatcccc ctctcaaccg ccgccgccgc caacttcaca 360
cgcggcgnaa ctgccacag cccttcgcaa gaatccatat atggccaata ttattcttgg 420
tggttatgat aaggatgttg g 441

<210> 32632
<211> 239
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-038-Q1-K1-H6
<400> 32632

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gacataatca aaaaaaagag taaccaatac tataacaccc aaaatacacc aaactaaata 120
gacttgaccc tttgatcaac ccaacottca ttctcctcta ctccaacttc taaaccacct 180
ataccaacac gtacaccaat aactctgata tcttcatact tactccactg ccaataaac 239

<210> 32633
<211> 140
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-038-Q1-K1-H7
<400> 32633

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taagattggg gttacattaa aaaaaaggta ttaataataa aaaaaaaatt atacataaat 120
ataaaataat tttaatacat 140

<210> 32634
<211> 274
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-H9
 <400> 32634
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 ggccatcctt ctgctggccg ccgtcttcgc ccgcgtccca gctgcgcttg ccgaccgcga 120
 cgacctggtg gcccttacct aatccacgtt ccaaaaggag gtcagaaagg accgcggcgc 180
 cctcgtcgag ttctacgccc cctggtgtgg tcaactgcaag aagcttgctc ctgagtatga 240
 aagacttggt gcaagtttta agaaagctaa atct 274

<210> 32635
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-A1
 <400> 32635
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 ggtctaggcc ttacgaccac accaaaatgg tactgccagt gccatcaaag aggaattggt 120
 agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcaa gccatgatgc 180
 accgcattgg cagtcttcga cagccaaggc ggacatggaa atcgatgggt gatttgtagg 240
 ttccagagtg gcaagaaagg gaatccccctc taatcattat gtatactgtg gtcagaatgt 300
 ccgctatata ttgtaacatc aaagaaagca ccttcaggcc tgatgggtgt actgctaattg 360
 cgtttggtta c 371

<210> 32636
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-039-Q1-K1-A10
 <400> 32636
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 ggttgaccat gctggatatg ctggtggctc tggtggccgc acagtagccg ctggtgcacc 120

tgcaaaatga gggacaacat agctgttgca cgtctcctgt gtcgttcggt ggccctcaga 180
 ttgttttgaa gttggcatag agatccatca attggctcgag tgcgggggta ccagaaaagg 240
 ctggatacaa atttttggag ttctgtttca tcactatttt tgcaggcaac aaaagctaaa 300
 aaagtgatta ctaattgagt aattgtagaa tagacaccta ttcagatgta gtttttagttt 360
 tggtc 365

<210> 32637
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A11

<400> 32637

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 ggctaaagga ccctttgttc ctccagaaaa cctactaaga gcaaagcctg agattgggtg 120
 gaaagggttca gcagctacga gtgcatttcg tcctgctgaa ccaaggaaga ttttggagat 180
 tcctgctgct gcacgcgaca ttccagtatc tcatgctgct gggaagcagt ctcgctccac 240
 gcttgggtttt gatttgaatg ttgcagatga ccaagctctc gaggaagata tcccacagag 300
 ttctgcacag actacctgtt ctgaatctgg aaatacgaga agtcgagatg gctcttcacg 360
 aagcgcttgg cattgaactt gatctgaaca gagctgatga agttgcagat aatggccaat 420
 ttgcaccaag tgcttcgcac 440

<210> 32638
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A2

<400> 32638

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 ctgagccacc gacgccacag tccatgccag agcgccttct acacctacga ctctttaatc 180
 gaagccgcca gcaagttccc cggctttggc accaccggcg acgagcagac acgcaggcgc 240

cagctcgccg ccttcttcgg ccagacgtcc cacgaaacca ccggtagatg ggcgactgc 299

<210> 32639

<211> 209

<212> DNA

<213> Zea mays

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<400> 32639

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gagcaagaca cactctgaaa tgatttcacg acgaagcccg gcattctata attagcatcc 120

ttgaaaggat gatggctatc attatcgatg gaagattcct gatgtacgca atcgaccgaa 180

ctatattgga cagactatgt gcactgagg 209

<210> 32640

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A4

<400> 32640

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gagtaaaaca gaatctgaaa agatttcacg aggaagcccg gcattcttta attagcacc 120

ctgaaaggaa gttggctctc attattgatg gtagatgcct aatgtacgca ctggacc 180

ctcttcgtgt tgatcttctt ggattgagtc taacttgcca ctctgatata tgctgccgag 240

tctctccgct gcataaggca caggttaca gcttagttag gaaggggtgct gagaaaataa 300

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<210> 32641

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32641

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cgtcgaggcc ttacgaccac accaaaatgg tactgccagt gccatcaaag aggaattggt 120
agatgcagcc accaaagcag cagcagcagc agctcctcaa caagattcag gccatgatgc 180
accgcatggg cagtcttcga cagccaaggg ggacatggaa atcgatgggt gatttgtagg 240
ttccagagtg gcaagaaagg gaatcccctc taatcattat gtatactgtg gtcagaatgt 300
ccgctatata ttgtaacatc aaagaaagca ccttcaggcc tganggtgtt actgctaattg 360
cgtttggttt acttgtnctt gtaatatgca tacacattta gaactcatg 409

<210> 32642
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A6

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agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac acctacgacg 180
ccttcacga cgccgtcagc aagttccccg gcttcggcac caccggcgac gagcagacgc 240
gcacgcggga gctcgccggc ttcttcggcc agacgttcca cgaaaccacc ggtggatggg 300
cgactgctac ggattggacc gt 322

<210> 32643
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A7

<400> 32643
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gggctggatg cgcccacaaa cactaaggcg acctagacag catgacgatg accatgttcc 120
agaaactgct aaggcacctg aaccacatca taagcctaag caactatcta cacctacgac 180
gccataatgg acatcggaag gacactgacg acgatcagca ccacatgga ctagcagacg 240
ctcaagcact agctttgcag ataatacgtg ctgacttaca agcaaacgct cagaggatgt 300

gcaactgata tgcgaagacc agctactaga gatactgacc aatgagagac acttgacaga 360
cagaaccaac ctact 375

<210> 32644

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-A8

<400> 32644

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taacaggatg cgcgcacaaa tccttaaaaa acgtagagag cttggtgatg tttgccctca 120
tgaaacctct aaagcagata aacctcatca taaggataag gaattatcag accgtagggtc 180
caatattgaa cataggaggg aactgagga cgatgatcag gagcatgagc tacaaaaagc 240
taaaaaacta tccttgaaga aaaaagggtgc tggctcagaa gcgagtgtg agaggatgtc 300
caaagcagat gctaatttgc agctactaaa tccagctgaa caagagagac atttgc 356

<210> 32645

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B1

<400> 32645

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atggagtaaa acagactctg aaaagatttc acgaggaagc ccggcattct ttaattagca 120
cccctgaaag gaagttggct ctcatatttg atggtagatt cctaattgtac gcactggacc 180
caactcttcg agatgaactt cttggattga ggctaaatcg ccactctgtt atatgctgac 240
gagtttctcc gatgtataat gcgcaggttt caagcttaat taggaagggt tgctgaaaaa 300
taactttcaa catcgggtgac ggtgctaata a 331

<210> 32646

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B10

<400> 32646

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gcaaggagct caagaacggc cgcctcgcca tgttctccat gttcggattc ttcgtccagg 120
ccatcttcac cgggaagggc ccgttcgaga acctcggtga ccacattgcc gaccccgta 180
acaccaacgc tggggcctac cccaccaact tcgtccgcgg caagtgagga aggcgcgcgc 240
ggagaccttt atgtgtgcat atgcatgtga gcgcactctg gttttcggtt tgcaccatga 300
tgtacactat tgcacaatcc acaggggaata attgtgcaca tgtgcaatat ttttcc 356

<210> 32647

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-039-Q1-K1-B11

<400> 32647

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atctccttgt cgataccgcg atactttcag cagtatgaac ccagctccaa cctaattctg 120
cccagctatc ttcttccata tgctgcagcg tcaagtgggc cagttcgcac agccagcagc 180
gggctgaact atgcagtga cgcgctccta tccatcaacg ttgtgggtggc tctccttgtc 240
gcgttgatcc ttgacaacac agtgccaggc agcagacaag agcgcggtgt gtacatttgg 300
acagatccca aatccctcga agtggatcct gctacattgg aaccctaccg attgccggag 360
aagggtttcc tgctggttca ggtgggcaaa gtgtgtcggc atctaaaagc tcttangagt 420
ggcggatgaag attctattta t 441

<210> 32648

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B12

<400> 32648

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tagggccatc cttgatttgc tacctgcggc ataatgcctt tcctcaaaga gatctgcatg 180
actattcagg tgatatcagc catgatcctt tggttgtcaa gttgccgaat attgcgcgtt 240
ggtatattgc aattgaaact gtcaacaaaa cacagactaa tgttacagca tcaacacctg 300
ttctagacac aacatgtatc tcattgaaat ggcaattaac tggatgcttg aatggaaaaa 360
ctggaaccaa ttgctcttgg gaagcatatg gtctccataa gggttcccaa gagatgcctt 420
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<210> 32649

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H5

<400> 32649

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catgggcaac ggcggtggcg ccaatgttgt cgcgcccgga tacaccaagg gggatggcct 120
tggcgctgag atcgttggca ccttcatect ggtctacacc gtcttctcgg ccaccgatgc 180
caagaggaac gccagggact ctcatgtccc catccttgct ccaactgcaa ttgggttcgc 240
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gagccttggc gccgccatca tctacaaccg ggatcatgcg tggagcgacc attggatctt 360
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ggcca 425

<210> 32650

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-039-Q1-K1-B2

<400> 32650

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gcagcaaaac aaggggtctgc gatgattaga agccgaactt acgtactctt taatgcgccc 120
ccatagctgg aatatggcgt cacactattg aaggtaaatt gctaattgtac gcacaacgac 180
cgaactgtgg aaaa 194

<210> 32651
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F5

<400> 32651

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tcgggttggg cggcaaggcg aagcctgctc cgaagaaggc ggcaagaca tcgacctoct 180
ctgaccggcc gctgtggttc cccggcgccg tggcgcccga ctacctggac ggctcgctgg 240
tcggcgacta cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
agttggactc gctggaccag aacctggcca agaattgaggc cggcggcacg atcggcaccg 360
ggttcgagtc ctccgaagtc aagtcacccc cggttcagcc ctacagcgag gtgttc 416

<210> 32652
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F7

<400> 32652

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agggaaacac caaactgtcg ggccggcgcg ccacataacg accgcacgtg ggcccggttc 120
gggttcggat tgggcggcaa ggcaagcct gttcgaaga aggtggacaa cacatcgacc 180
ttctatgacc gtccgatgcg gttccccgtc gccgtgttgc ccgactacct gtacggctcg 240
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<210> 32653

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-F8

 <400> 32653

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 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 180
 aatgagatgc gctgctacta tatatacggg tacgtatgcc cgatgggaag cagagcacac 240
 gcgtagtacg ctcgctcgtag tagtcaataa aagtttggtt ccatcaccac gtcataaat 300
 aaaagtaagg aggttgcaag ctttgtgtgc gtgcttgga acgtcgactg tatctcatgc 360
 atcgaataaa ttaaatagat tttgtcc 387

<210> 32654
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-G1

 <400> 32654

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 aaagaggaca agaatagtac cagcagcagc aagcttacac aatccaagca cccaacacag 120
 agatatcatc gtcgtctccc cagtacgtcc cgaccgggca cctggttcaa ccgggttttg 180
 gactttggag aggtcgactt tgacgaaaca aatttgccag gaaaccgtaa cagacgcgtc 240
 atcacatcag caagcagtag gtggaggaag gtaacgcttc aggagatgga tgtgggtgct 300
 acgagccgcc ttttccctct tctgctctc ctgctgctgc tgctggcggc gtggcggcgc 360
 cggcgtctcc tcctctgccg tagccgagct ccgagatctc ccagctcgtc gctggggcta 420
 cctcctggtg caccgc 436

<210> 32655
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G10

<400> 32655

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tttgcctctat tctcttctgc acacacacac acacacctca tagagcgacc agatcaaadc 180
aaactataat aacagtagtt ctagtcttgc cattctacat agaaccagct tgcctcagacc 240
tctcggcgca cacaggcaac cgcaccgacg ctgtcgccgc ctcttcctct gcaaagcttg 300
aggccttgct gattaagcca cggatattga acatcgactg gcccgcgta aagtcgacga 360
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<210> 32656

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G11

<400> 32656

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cgcggcgtcg tccgccagcc caccatggcc ggcagtcct tcctcctcgc cgacactgac 120
gccgtcaggt cccccgcggt cttcgccgat acctattcct ccgcaagccc tttgcactcg 180
gtccacttcg tcgccggccc gtggggcgcc 210

<210> 32657

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G2

<400> 32657

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tgagctcatg ggtaccaag tcgtgcctt ttctcgtggc tccggcagtg gcctcgcca 120
ctgccgcctt ccagctcacc tccatggaca gagctctggt ttccctgcc gtgtcagcga 180
tgttcgtcta cgagaacccc atcgatcgtc cggccgagac cattagaaga gctctgtccc 240

gtgcgcttgt tccctactac ccaatggcgc gccgcctcgc cgtcactggg gaccagctga 300
agctcgogtg caccggcgaa ggcgtagcgt tcgtcgggtgc gtcggcgagc tgcaccct 358

<210> 32658

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G3

<400> 32658

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cgaagacacc cgccaagccc aaggccaagc cagctgccaa ggcgaagccc aagaccgccg 120
gcgctaagcc gaagccactt gctaagaagg ccggccgccc cgccaaggcg gcgaagacgt 180
cggccaagga caccgcaggg aagaaggccc ctgccaaaga gcccgctccc tcgaagaagg 240
cggcgacccc ggtgcggaaa ggcgcgtccc gtaaggccaa gaagtaaagc ggccaagaag 300
gggggcgcg a tgctgtaaat ttgatatcgg agaggctcgg gtacactggg cattcagtat 360
ccgagaccga tagctgaggc tagtggcgat ggaggactgt gttattacta ctataaactg 420
gtggttgtgt ttct 434

<210> 32659

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G4

<400> 32659

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ggcggccaag gcgctcctcg tggtagcgt cctgctcgcc gccaccttcc tcgacggctc 120
cgctaacgag caagcccagg cggccaaaga ggagaagaag gcggagggtcc aagactggca 180
cggcgggcggc ggctaccgcg ggcacggcgg cggcggcagc ggagggtacc cggggcacgg 240
cggcagcggc ggcggcggct acccgactg ccggtggagc tgctgcaacc gcgggtacca 300
tgcccgctgc cgggtgtgct cgcaccctga tcagatacca gaacccatgt accgacctga 360
gctcgtcgag ggccacaact aaatagtaat gagatgcgct gctactatat atacgggtac 420

ctatgccc

428

<210> 32660

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G5

<400> 32660

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ggtgggcatc cgcgcgagc gtgaccagac ggtgtagaga ctagatagat cggaaggggg 120
tctaggcata gagagcgagg aggatgaccg gcgttgctgc aggcgcggga gggggcaaca 180
aggcggcggg cgccacgctg cggctgcacc actaccttgt gatggccggg gtggcgggcg 240
cggtcgtact cgcctgcctc cggtaacgcg cggaccccg cgggtaacggc ttcctggccg 300
tggcgccgcg gacagtggag gccgttgctg gtgcccgcg ggacaccact cctccaccgc 360
gcccgtcgtc gtcgtcgtcg gtggtcacat tcaacttcgg tgactccaac tccgacacgg 420
gcggcatggc g 431

<210> 32661

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G7

<400> 32661

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gagcccttat acgcgcagag ctacaccata tatcatacat actatatata tccaacatgc 120
ctttacacat acatatctat aataataacc cccattcctt aacacgccta atccactaac 180
aacacatcct cctccacact actgcttcac cactaactag ttatctccaa aaaggcctct 240
ccactaatac tcacatatcc ttgctacag ccacacccc 279

<210> 32662

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G8

<400> 32662

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ccaccacggc aggatgacga cgctgaggaa cctcaagatc aagacgtcga cgtgcaagag 120
gatcgtgaag gagctgcgct cgtacgagaa ggaggtggag aaggaggcgg ccaagaccgc 180
cgacatgaag gagaagggcg ctgatcccta cgacctcaaa cagcaggaga atgttttggc 240
tgagtcaagg atgatggtcc cagactgcc aacacgactt gaaactgcac tggctgactt 300
gaaagcaaca ctggctgaac tgaaggagtc aaatgagcaa ggtgccgaga ttggagaagc 360
tgagagtaca atcgagaag ttgaagcagt tgtcaagcca gcagaagatt aaactaaaaa 420
aactcttggt ttgctgaac 439

<210> 32663

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-G9

<400> 32663

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acgcantcga ccacggggcca cacaatccca aatctaacc tccgacggcg atggggatct 120
cgagcatgcc ggagcccgcg gacagcctgc tgggggtacct ggtgtacaac acggtgatct 180
cgatcgcggc gctggcgggg ctggtgcggg cggcgctggt gttcctggac ctgcaggccg 240
cgctgccgcc cggggacgac ggcggagacc gactggcggc gtcggggccc ggactggc 298

<210> 32664

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H1

<400> 32664

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atgcagcgaa caccaattca ccagttcagc gagcattgtg gctactcttg gatctggaga 120

atctcatgcc tctttatata ttatggatct ttctgaagct gttgacttgg caatcggacc 180
atggactacc tacagagttc attcacttga tcgaacaatg tggacagctg attgtagttc 240
tgatggcaca catgcagctt tcggttcgga ccttggtgct ggtctgatcg atttggaac 300
aaggggatca tcgtgggtat gtcgttctaa aagcgacatt cttccctga aatttggtgca 360
ctcgggaaaa gttgtgctat gtgggctacg gaatgggagt atagcccctg gtgatgtacg 420
gcaaaaacag ca 432

<210> 32665

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-H10

<400> 32665

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acttgatttt ggagacaagc aggattcacc agcagctgtc acggaggaag aattggctag 120
acatctgcat ctttaaggagt tagacgagag gccatgcatg ttccaggctg gatctgcctt 180
caatgggacg gggatcaaac atggcggttga ctggttggtg gaaaaaatgg agaggaagta 240
acgcaccgag gcactaaagg cgcgtacaga agcagctggg aagatttaac acctcaattc 300
agggctatca cctgtgattt tccaaatgca aagcatctg 339

<210> 32666

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-H4

<400> 32666

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gatgggtang cagcctccac accttttttag ctgactgacg ggagagttac tcctaggcaa 120
ctcttgtttc tagatttgca aatgggtgtct gaaactctgc gtttgctgcg gcagaacgtg 180
tacttaattg ttctgtatag gtctgaataa cacatggatg gtatcagtct gtagcttatt 240

ttttttactt gatccgtttc ttctgtgggt tgtgatttgt gaatgaccaa aagatggatg 300
ctgt 304

<210> 32667
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F4

<400> 32667

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ggagagctat tccagggctc cataactcctg aaccatcaga agctggatca tcaacaaaag 120
agaactactt tggagaccat catgacgcta gaagtataca tgatggagga tcaagagata 180
cttcttttag gagaacaaat catgggcctt ctgtatttgt tatcagtggg agttctctca 240
gttcagcaaa gcagatgtct cctttatcta ttaacaaagt agccataaac aatgctgcaa 300
atttgcaaca aatgaagact ggtgattggc gtgttgaggt gtcagttcca aagcagagta 360
tgatactgct gggtgataat gacgagaagg ggtccattaa agtctgcagc ctaaaagata 420
caaagagaaa tgcatatg 438

<210> 32668
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D5

<400> 32668

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ctgtccgccg accccgagac attcgccaag aaccgcgagc tggaggtgat ccactcccg 120
tgggccatgc tgggcgcgct cggtgcgctc ttccccgagc tgctctcccg caacggcgctc 180
aagttcggcg aggccgtctg gttcaaggcc ggctcccaga tcttcagcga gggcgggctg 240
gactacctcg gcaacccag cctgatccac gcgcagagca tcctcgccat ctgggcctgc 300
caggtcgtgc tcatgggtgc cgtcgagggc taccgcattg ccggcggggc gctcggcgag 360
gtcgtogacc cgctgtacc tggcggcagc ttcgaccccc tcggcctggc cgacgacccc 420

gaggcctt

428

<210> 32669

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D6

<400> 32669

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ctactacttc tattacaccg ccagtctatc ttccaacccc gagacattca ccaataacct 120
ctatcttttaa attatccact cccacttaac catactctac tctctctcct gcatcttccc 180
ctatcttctc tcccgcgaact tcttctatct ctactaaacc ttctatttca atgccttctc 240
ccatctcttc atccatacct tatctaacta cctctacaac cccatcotta tc 292

<210> 32670

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D7

<400> 32670

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gagatagatc acacgctact gccagcggcg caggtgggtgc tcaacatggc gagggcaaatt 120
gagatcattt acctccacgg cagggacgcc tacaccttcg gtgctgacct caaggacctt 180
gtcaccacac tcttctctcaa gcaagtgtc cctctctaga caatactctg atcacacaac 240
tagattggct ataacgattc tcgtgttgta ttacgctttg tgtttcatta tgcacgctat 300
atatatgatc aatgtacctg tttctatcat attgatggta atataatatt ctaaattggat 360
atagtt 366

<210> 32671

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-E10

<400> 32671

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cgttccatgt cgctgaagtt ttcacaggtg ctccagggaa gtatgtggag ctgaaggaaa 120

gtgtgaagag tttccagggt gttttggatg gcaagtatga tgacctccct gagcagtcac 180

tctacatggt tggaggcatt gaggaagtca ttgctaaggc cgagaaaatc gccaaggagt 240

ctgcttcata aggcggcttc ttgcttggtg aatcctgtac aatcaagttc cttttttgga 300

tttaagcgat tgtttatgct tttcgcagtt aggcagcacg agttggaggt ccatctnctg 360

ctgaaatgct ttgttttctc tttgttggtc aaacacttta cacccaaata agcaactgca 420

gtgacattaa ttttggtc 438

<210> 32672

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E12

<400> 32672

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ccaggggtca ccgctgttcc tagggcgaaa gatgacgact gcctcattct tgcaagtgat 120

gggctgtggg atgtagtgtc gaatgaagag gcatgcaaag ctgcgcgtcg gcagatccag 180

ctgtggcaca agatcaacgg tgtcacatca tcattgtgtg acgaggggtga tgaatccaat 240

gatcctgctg ctcaagctgc tgctgattat cttatgaggc tcgcaactgaa gaaggggtacc 300

gaggacaata tcaactgtcat tgtggttgac ttgaaacctc gaaagaaggc caagagcaac 360

tcatatcact gggatggatc catcacggta gagctgacca tgatatgtcc aaaggcttct 420

gctggtacgt tgtggtcgtc cgcaagagac ttgacccac a 461

<210> 32673

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-E5

<400> 32673

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 gagaaaaaat aaaaagtaaa taaaacaaaa aataacaaaa aaactggttc tcccctttaa 120
 aggtctcaga tttacttccc cttacttccct acgcattctc ttttttttat tgccacataa 180
 atctattttac ctggcccttt tttaacacct tctcatttgg aaaaaccctg gttttaccca 240
 attatattgc ttttaaaaact attccttttt ctcctattac cctaatactg aaaaaccctt 300
 tcccgatcga tattcccaac attttggccc cctaaatgcc taatgtgacg ccccttttca 360
 cctcatatta atcccatgga tccttcactt tacacctaac cttaccatth cctttgcctt 420
 ctctttatac 430

<210> 32674
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E6
 <400> 32674

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 gtctttttca gcaaggagca gggccctcgc caaattaggc acagcacctt caagcacaca 120
 caagttccga tgctttcaca aagtccaagc accaaggata actagggaat ggaatccact 180
 ttggaccoga tcatggactt ggaaactttc tctatgccac caagcatcta ggctatcatc 240
 agtctgagca cattagccta gcaccactt gtgttgaaat ctttctctat aaccaagtt 300
 atgatgtatt gaaacctttt ttcttatagg tatgagtac caagaggtag cagattatat 360
 gaaaagtttg gcaattcggg tttctggttt tgatgtgcca aggccaataa aaaactttga 420
 ggattgtggg ttct 434

<210> 32675
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E7
 <400> 32675

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gcatggggca gccgccgacg gactcgccgc ttctcgactc ctccgagcag gtctacatct 120
 cctccctcgc gcttctcaag atgctcaagc acgggagggc cggcgtgccc atggaggtca 180
 tgggtctcat gctcggcgag ttcgtcgatg actacaccgt cagggtcgtc gacgtcttcg 240
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 acatgcttga catgctcaag cagaccggca ggccagaaat ggtttaggc tggatatcact 360
 cacatcctgg cttcgggttc tggctatcag gcgttgatat caatactcag cagagttttg 420
 aagctttg 428

<210> 32676
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-038-Q1-K1-E9
 <400> 32676

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 gcaccccgca cgagaccgt cgtggagggg cacgtgctag atgcggggcg cctgcctctc 120
 gccgccgata cggtgctctc cgcgggtctcg cccccctcg cagacatgca gagccagata 180
 gtgtgccacg ggtgcaggac ccttctgttc tacccaagag gtgctccgag cgtgtgttgt 240
 gcggtatgcc atgtggtcac caatgtgccg ncttcagcaa tggagatggc tcgacttata 300
 tgtgggtggct gccagacatt attgatgtat gctcgcagtg caacaactgt aagatgctca 360
 tg 362

<210> 32677
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-F1
 <400> 32677

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cacgaaaaaa aacgaatcct tttgtagctc gtcatttatt ggcaaaaatc gaaaagggtca 180
 atatgaagga ggagaaagaa ataatagtaa cgtgggtccc ggcatctagc attctacccg 240
 caatggttgg ccatacaatc gcgattcata atggaaaaga acatatacct atttacataa 300
 caaatcctat ggtaggtcgc aaattggggg aattcgtgcc tactcggcat ttcacgagtt 360
 atgaaagtac aagaaaggat actaaatctc gtcgttaatt gaattcagaa tagaaagatt 420
 cagaataaac aaaa 434

<210> 32678

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F10

<400> 32678

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 cgccgagtag accgagaagc atatggcgct gctgagcgcc gactacgggc tggatttggg 120
 caccgtcaga ggaaccgtca acaacgcctg ccggattatc gaggtaccgt gaccgcgtacg 180
 tgagcttcac ccagtcgtt gaaagatact agtagcagca gcagtagtag ttccagtacc 240
 atcctgcaac ggaaagacga agggaggcgg tcaatgaatg gagaagaaga atatatataa 300
 taaaaaatca tctgatggcg ttgttcgttc tccgtgtttc aagtgcggag ggacttgggc 360
 tcgctggaca ggtacgtgtg ggcgttcgtg aacaacatgc cgctgtcgcc gagctacaag 420
 taca 424

<210> 32679

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F11

<400> 32679

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 gggttcctgt ttcagtcgat cgcagttagc atggcccgca cacagagctg tcaggctgct 120
 gcttgcttac cggccgccgt ggcggtcgac gaggagcacg gtcaccacag ccaccagctg 180

aagggaggag cgcattgagga ggctgagaac gacaataagc cggagctccg gcgtggcccc 240
 tggaccgtag acgaggacct caccctcgtc aactacatcg ccgacaacgg cgaggggtgc 300
 tggaacaaac ctgc 314

<210> 32680

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F12

<400> 32680

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 gggggcgggc ttctgctgat cgtacggatc aggttcggga tccagaggtt ctacgctgct 120
 cgggtgtgtg ggtgagccga tccagacggc gacgtccaat gtcgagtacc gctgcttctg 180
 aagcgacctg cgctggacca cggtcgaaca ctcaatacac aacaccttca gcacctaccg 240
 tgaagcgctc acgtggacga taatcctgga tacgtacaga cgcagacaga cccgaggggtt 300
 cggttgaact aaccttgtcc acgcaggagg gctaacgcag acggcctcga tgtcatcaac 360
 tgcaatggat caagtacgtc gcagcatgac cgacaacgag gccattccc gccgacgacc 420
 a 421

<210> 32681

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-F2

<400> 32681

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 acaaacgctt aatcaacaaa aacaacacta atcacaacac cctgatcacc ccctaaatta 120
 cacatctaca tcaaaaaaat gcaccttaat tacgacaata taacaactgt aacttgatcc 180
 cgttccatat aacattacac ctcaaccatt aatgcataac cataacattc attataacaa 240
 agatcatcaa cctatttcct ttacaaatcc tacagtacat cacctcataa gaccaatccc 300
 ta 302

<210> 32682
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-038-Q1-K1-F3

 <400> 32682

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 agtttacaca taagaggcca ctctttaaca tgaaaaaag gaataatcag ctctgacaca 120
 aaataaaacg aacccttttg taactcctca ttcattagca aaaactcaaa aaagtcaata 180
 tcaatgacga gaaataaata attgcaacgt cgtccctagc atctaacatt ctacccccaa 240
 tgggtgtcca tacaatctcg attcataatg gaaaagaaca tatacctatt tacattacca 300
 atcctatggt atatctc 317

<210> 32683
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-038-Q1-K1-D4

 <400> 32683

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 gatgaggatc catggagaag tgcangtcgg tgccgcacga gcactcgtcg gcgtactacg 120
 gctgcggagg cgggtacgac tacgaggacg tcggcggcgg gcccgggcag gccggcaagt 180
 cgtacagctt caacggggcg agcgggccgg acgacccgga ggccaagcgg cggcgccgcg 240
 tggcggcgta caacgtgttc gccacgcagg gccggatcaa gaccaccgtc cgcagcagcg 300
 tcaagtggct caagtccaag ttctccgacg tccgctacgg tggcctctga actgatctga 360
 tgagcctact gcatgcaacc catcctactn ctacgaccgc acacatatat gtgtatgcac 420
 gaaccatgat gtcata 437

<210> 32684
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B7

<400> 32684

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ggacccaatc tcgtccgacc cggcgcgtcg tcccctccag atctccgtcg cctctccag 120
gtagcagaaa ctgttctgct tcagtctgac aaagtggagg gcttaggagt ttctgcttct 180
tttatgtctg aacaatcttt gctttatttg ggattgttgg gagagtactc tcgtgcaacg 240
aggaaaaggc acaaggttcc gttccactgc atgctcaag agcctgtctg gttttcttgt 300
tctgatttgt catttgctgg tgctcaaagc cggcttgggt tcctcgaagg atcagcatct 360
actcttgatt gtggactttg tcgcatctga tatcaacttc ataaatcttt atccaagatg 420
gcgctgca 428

<210> 32685

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B8

<400> 32685

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actagataac aacaagcgtg aaccatggcg gacgagtacg gccgcagcgg ctacggcagg 120
tccggcgccg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180
ggccgtggcg aaggtggcta caacaagtcg ggccggcgatg acgactacgg ccgcagcggc 240
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<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B9

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ggcctcctgc tagctcccg tggaaacgct cccagatccc agacgcagcg cgctacccca 180

cgcgagcgaa ggccggcgcg cgacatggga ggggtgccac ggaagccgct caccgaggac 240

gcggaaggct cgccgccgca cggggcgccg gcgaccccg ccccgggcaa cgctaccccc 300

ggccccggga agaagcactg gggggtgtcc ccgttcttcg cgttctccac gccgagcccg 360

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ccgggc 426

<210> 32687

<211> 427

<212> DNA

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<400> 32687

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cgcagggcgc gcgccccgc gtggccatcg gggacttcgc gctcgacctc gccgctgtcg 180

ccgacgcggg gctcttcgac gggccccgc tctccggctc cccgtgcttc caccaggaga 240

cgctcaacat gttcctgggg atgggcccgc cggcgtggag ggaggcgcgc gtcacgctac 300

agaaaatcct atcagccgac gagcccgtct tgcgtgacaa cgaagcgctg aggaacaagt 360

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acttctt 427

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<211> 422

<212> DNA

<213> Zea mays

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<210> 32689
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 <213> Zea mays
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 ccactccttc cttttatggc acaaatcaat cttatacagc cccagaccat tctcagaatg 180
 tttaccaggt acctcagcca tacaatgtac caagtaatac atattcagaa gcttaccac 240
 aacaacctac tggcgctat ggatacaaca acacatatca acctcaacaa ccaaccata 300
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<210> 32690
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-C5
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 ggcagcgccgc cgccgacccc cgcgccgggtg tctccgcccc tgccgtcccc gaccatgcct 240
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 gcacccacgg tcg 313

<210> 32691

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C6

<400> 32691

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 tgtaccgcgg tgatgttggt cctaaggatg tcaacgctgc agttgcaacc atcaagacca 180
 agagaactgt ccagtttgtg gactggtgcc cactggatt caagtgtggc atcaactatc 240
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 tcagcaacaa caccgcccgtt gccgaggtgt tctcacgcat cgaccacaag tttgacctta 360
 tgtacgccaa gcgcgcattc gttcactggt atgtcgggtga gggatatgaa gagggtgagt 420
 tctcagaagc ccg 433

<210> 32692

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-C7

<400> 32692

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 agttacacct actgtccatc gatttacacc tcgttttact gcgaaatcac tggcaaaacc 180
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<210> 32693
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-038-Q1-K1-C9

<400> 32693

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accaccacca ccacctgttc caccacaaga aggacgagga gcaggccgcg gccggcgggc 180
acggcgagtc cgccgagtac acggaggcca cggtgacgga ggtcgtgtcc acgggcgaga 240
acgagtacga cgagtacaag aaggaggaga agcagcacia gcacaagcag cacctcggcg 300
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acccggagca cgcgccacgt cacaagatcg aagaagaagt 400
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<210> 32694
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D1

<400> 32694

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tccgccggcg ggggggtgcaa gcgcatgcgc cgctccccgc gggggccatc ggggacttcg 180
cgctcgacct cgccgctgtc gccgacgcgg ggctcttcga cgggcccgcg ctctccggct 240
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acatatcgct gaggaacaag tgctc 384
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<210> 32695
 <211> 458
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-D10

<400> 32695

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gtgatggcga tcatccagga ggcgcggaag ccaggggacg ccatgaacct tgccgggcag 180

ctgccctgcc tggggagcgt ggaccttgac gacattgatt ttgacgatat tgacgacatc 240

gacactgaga acagcggcga cttcgtttgt gcagtgtgac tgtgtgaggc tcagcagggc 300

aggagctagc ttcctttgat cgttggtgtc tgtagatcct tgttgtgcta tgcttncatt 360

cgttcctgga tcagatatgt tgttgtgtaa ccgagaaaat tggcggttgot gtggacaaca 420

taaacagacc cataaactta tgcggaaatc taccctccc 458

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<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D2

<400> 32696

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gatgataagt atcggtttga aattaaggat attcttgaaa tggaaatgaa gctcctggaa 120

gctctcgact attatttggg tgttttccat ccatatcgtc ctctcttaca gttgttgcag 180

gatgctggca taacagacct gacacaattt gcctggggcc ttgttaatga tacatacaag 240

atggacctta tcctcatata ccctccctac atgattgcac tggcctgcat atacatagcg 300

agtgttttga aagataagga caccacagca tggtttgaag agctccgtgt tgacatgaac 360

atagttaaga atatctctat ggaaatatta aacttctatg acacctacaa gattgatcct 420

caaaggggca 430

<210> 32697

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-D3

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tacacacaag attcaaaaat tactgaatgg acaagtatcg acaatttgac atatagccca 180
cttacttgac tacatthttcc acaccagtgg gaagtgacgc agtgacactg aaccttagtg 240
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tcaaggctcc tagtggcaat ccttcgcaat cactgtatca cataccaaga gaatttctaa 360
accctcaaga caatacccta gccctthtttg aggaaatggg aagtaacca cagctaataa 420
cagtgaacac aatg 434

<210> 32698

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B6

<400> 32698

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gaactggaaa gacgtgaaag agaggctgca gaggtgaga aaaagcgtaa agaagaggag 180
gaagctgtag caagggcatc ccaagaagca gctgagaagg aagctgctct tgcaaggagg 240
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gttctcataa gattcccaac tggagagcgc agagagcgga gattctacag ttctgcaacc 360
gtcgcttccc tctatgacta tgtcgattct ctagactgca tgaaagcgga gacgtacacc 420
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<210> 32699

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-G7

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atcaagagcc aggccgggag cgggtgcgag ggcaagaact tctacacccg gagcgcgcttc 360
ctgagcgccg tcaaggcgta cccaggcttc gcccatggcg ggtcgcatgt gcagggcaag 420
cgcgagatcg ccgctctctt cgcgcacgcc acgcacgaga ccgggcat 468

<210> 32700

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H1

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gccgccaccg agcttccac ggggaccttc ttcaagtggc gcacgccgca gctatactct 420
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<210> 32701

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H11

<400> 32701

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cgtcaaccaa aggtccctcc aaagcagccc tccagcgatg cctctcgggc agctggagag 180

atgcaggtga atggtgcttc aagtgcacat cccgatgctg tgactgaggt tctgtttaat 240

agtgtacca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300

gtgaaaaacc gagaccagcc aagaactggg aagcaatcta agagagattt ggggtttctg 360

gtacatacct gggtttgtca tacatttctg aataacatgt gtcaaacacag catgacgaca 420

acat 424

<210> 32702

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-H12

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ttatcttgag catgacattg ctcaccacac atccggtgat caccagaagc ttttacttgc 240

atatatgggg attccacgct atgaagggcc cgaggttgat cctacaaatg tgacacatga 300

tgcaaagggt ttgtacaaag ctggtgagaa aaggctgggt acggacgaaa agaatttt 358

<210> 32703

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-H2

<400> 32703

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cggcggccga ggagaaggcg gagaagacga ccgcaggga gaagcccaag gccgagaagc 180
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<210> 32704
 <211> 398
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 <223> unsure at all n locations
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 <400> 32704

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<210> 32705
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-A12
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<210> 32706

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A5

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<210> 32707

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-A8

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432

<210> 32708

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B10

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<211> 455

<212> DNA

<213> Zea mays

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<400> 32709

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cactttgatc atgcagctcc ttctgtataa cttgacccta tggacttctg acatctcgga 180

ggaccctgct gaagagatta gggaggcacc caagcgcgac tcgagtgagg ggcagtaaag 240

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<223> Clone ID: LIB3068-038-Q1-K1-B12

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aaatttgggg gctccccgta tgagatgctg ccgggcaagg cctcggtgtc ccacctcgtt 420
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<210> 32711

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-038-Q1-K1-B3

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cgtgagcctg gccgtggaga tccaggccga cgccgggtac ggttacggcg gcgggtacac 180
cccgacgccg acgccggcca ccccgacccc gaagcccag aagccccca ccaaggggcc 240
gaagccggac aagccgcca aggagcaca gccgccaag gagcacgggc ccaagccgga 300
gaagccgccc aaggagcaca agccgacgcc ggccacgtac accccgagcc ccaaaccac 360
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<210> 32712

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B4

<400> 32712

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tattaaacaa aaatttaatc aaaatatata aattaaa 157

<210> 32713

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-B5

<400> 32713

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cgcacattca tacagggtcg atacctaact tatcacttca catcaatgac taatactgac 120
acatcacttt acatcatgca tcatctctta aagataactc tactcctata actctaactg 180
acatctccag acaatccctc tttaacatat tatcagatgc tacccaaaca gccactctac 240
ctgatcggcc attaaatccg tctcta 266

<210> 32714

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G5

<400> 32714

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ctggagagat acaaagctca gtataagtgc ttgtccttgt aggtgttgct gtatgcacag 120
tactgatgt tagtgtgaac tctcaagggt tactagctgc agtaatagct gtttgagca 180
cagcactaca gcagcattat gttcaccacc ttcaatggaa gtactcgctt ggctcattca 240
acctcttagg ccatactgct ccagcccagg cagcatcgtt gttagtattg ggtccttttg 300
tggacttctg gctgaccaac aaaagagtcg atgcttttaa ctacacatca atagttacgt 360
tctttatcgt gttgtcgtgc ataattgctg tcgggaccaa cctaagccag ttcatatgca 420

tcggaagatt cacggtcg 438

<210> 32715
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D4

<400> 32715

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<210> 32716
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-037-Q1-K1-D7

<400> 32716

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gagaatattg gtgaagcaat aacttgatat tgggttctag accaaagaag caatggaaaa 180
ggaatcatct gccacatacg agccaaaaag gaacagtgaataaagggttt ttgagagttc 240
agatgagatt tcaacggatc ttgctgagta tatctcacia gtttcagaaa tttctgtcaa 300
agaaagggga tactttgcca tcgccttata tggagggtccc ctagtcaagt ttttggggaa 360
actttgtgaa gctccataca acaagacact ggattggtcc aaatggtaca tcttctggtc 420
tgatgaacgt gctgtggcaa aaaaccatgc atagagtaac 460

<210> 32717
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D8

<400> 32717

acgctcacgc taccgcatat gatagatatt ctttttctca tcagcaattt aa 52

<210> 32718
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-D9

 <400> 32718

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 gccatggaca tccaccacca ccccatggcg tgtaccgcc gccgccgag ggctcctacc 180
 cccaccaca gcagcctcca cgggggtacc agggctactt caacgaccag cagcgctcct 240
 actaccgcc gccgcatgga gagcatcaac acaaccacca ccagggaaac cagggtagct 300
 cctctgggtt cctcaaagga tgtttggctg ctctctgctg ctgctgcgtg ctggaggaat 360
 gctggcgctg cttctgagac gtgagat 387

<210> 32719
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-E11

 <400> 32719

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 aatatcattg ctgtctgacc ccagagctat ggatgcaaaa ggtgagaatc gtcttgaaga 180
 ggagccagca gaaaacaact tggttggaat tagagatgct cgattgaaag agcgggtgcac 240
 caagactgac tccatgacag tcaaagtga acctgccaaa gcagaggcga tggaatgttt 300
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 acccaagaca gaaaagggtg 380

<210> 32720
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-E2

<400> 32720

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tacggttacg gcggcgggta cccccgacg ccgacgccgg ccacccccgac cccgaagccc 180

gagaagcccc cc 192

<210> 32721

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E3

<400> 32721

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cactagatag gtgacccaat aaggcaataa tgaacccatg gtcggagtag tgggtgtcatt 120

acatgaacat aagttactat ttaattagca tggagaatag aaggtggcga tcatttcctt 180

agctcctgtt agtgtccctg aacataagtt acccatggtc tgagatgtta catctttctg 240

agctatcttc tctcggtttg tacttctgtt agtgtccctg gcaccatata attcatttgg 300

agatattcaa tcagctgtgt ggctatgtaa aattggttgg attttaagtg atctgtgagc 360

attaactttc aatgtaccaa aaatcgatct taatatatga gatggattat atgggg 416

<210> 32722

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E4

<400> 32722

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ctgcaatgct agaagaaagg tatgcttget cttccaatgt tccactgcat tcgtcttgtg 120

ttaatttctg tcagtatcat tttctctcgt tttcatcttg ggtttttggc cctgtttggc 180

acagcttatt ttcagcttct tcacaaattt aagcagaagt tctgccaaac agccagcttc 240

tacagcagct tattagttca gctgcttctc agaatacact aaaagcagcc aacaagcaga 300

agctgccttt caccagcttc tcagataagc tgctttttca acaagcagca gttgtgccaa 360
acaaggcctt ttaatgtaca tataatgtgt gggatggtaa gatactagca tgctaccttg 420
agccttgctca ttttcttagc atatctggac aggccttggtt atttc 465

<210> 32723
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E5

<400> 32723

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tgggtctccg cccaacacgc tcacggagcc ggtatgggac accatcaagc gagacttagc 180
acgcacgtc agcaatctca agctcgtcgt ctccccaat ccctaccgcy aggaccccg 240
caaggcgctt agggactggg acctgtgggg tcccttcttc ttcacgtct tcttaggcct 300
cacgctctcc tggtcggctt ccgtgaagaa gtctgaagta tttgctgttg cattcgcggt 360
cctggcagct ggtgctataa ttctgacctt ggaatgtctg cttct 405

<210> 32724
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E8

<400> 32724

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atttc 125

<210> 32725
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-E9

<400> 32725

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gtacgagacc acgtcgttcg ttcagatcga gggggtgaac accaaggagg acgtcgcgtg 120

gtacgctggc aagcgcattg cgtacatcta caaggctaag accaagagca gcgagacccg 180

ctacaggtgc atctggggca aggtcacccg cccgcacggc aactcgggcg tcgtccgcgc 240

caagttcaag tccaaccttc cgctgagtc catggggcgc aaggtcagag tgttcattga 300

cccgagcagc atctaagggt aggttttttg tgaagtaaaa gtggactcca aatggccatg 360

cttattttct ctctctgagc ttaaaat 387

<210> 32726

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-037-Q1-K1-F10

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tctgtgatca ctggagccac caaagaaagc cagattgtgg agaacatgaa ggccctagat 180

gtcatccac tgctgacgcc ggaggtcgtc gacaggatcg aggcggtggt ccaaagcaag 240

cccaaagca acgtcgagtc atacaggtga aaattcgggtg ttcattccgac ggagttcagg 300

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aaacac 366

<210> 32727

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F12

<400> 32727

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gcggatgggg gctggcgacg cgcaccggcc gtatgcggaa cggctcctgc tggtcgcgcg 180
atcggctcgg ggcgtggacc gttgtcgccc gcgcggcag ccgctcgtcgg cgcggacggt 240
atccgcgcgc ctatggcgcg cccctcggag cgcttcgccc caacggcctg cgagctcccc 300
atccgacctg tcttgaaca cggaccaagg agtctgacat gcg 343

<210> 32728
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F2

<400> 32728

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aaaaaaaaat atataataaa ataaaataat atatattaac tttttataat tttttaccta 180
tttaa 185

<210> 32729
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F4

<400> 32729

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gctgccgccc ctgggctgcc tgccggcgtc gatcacgtg ttcgggcacg gcgccgccgg 180
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gctgtacgac ctggccacgg acccccagtc gcagggttc gcggaggccc cgcggggatg 360
ctgcgggacg ggcacggtgg agaccaccgt gtccttttgg aaccccaagt tcgtcgggac 420
gtgccccaac ggcacgttct ac 442

<210> 32730
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-F6

 <400> 32730

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 cactacagca gcattatggt caccaccttc aatggaagta ctgcgttggc tcattcaacc 240
 tcttaggcca tactgctcca gcccaggcag catcggtggt agtattgggt ccttttgtgg 300
 acttctggct gaccaacaaa agagtcgatg cttttaacta cacatcaata gttacgttct 360
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 gaagattcac ggccgtctcg t 441

<210> 32731
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-F7

 <400> 32731

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 gactcgctta 310

<210> 32732
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-F8

<400> 32732

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gttcattatt aggaaattgc attgagctgt aatcagatgc ttctctcttc aggtggtaca 120
ccgaaattca tacaatattg tgtgctaaaa aaacaacaaa ga 162

<210> 32733

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D12

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agaagtcact gtttcgagtg aaaatgtagt tgttgaagat gtaacttctc caagaattgc 240
accattgccg tcatcaagcc caagaatgcg tcattcggtg gcacaaatg 289

<210> 32734

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-G11

<400> 32734

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ggcaac 366

<210> 32735
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-A8

 <400> 32735

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<210> 32736
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-A9

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<210> 32737
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 <212> DNA
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 <223> Clone ID: LIB3068-037-Q1-K1-B3

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ttctccgagc tcggcctgcg tcgagtcgct cacggattgc cagtcggact gctccgactc 240
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gc 422

<210> 32738

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B4

<400> 32738

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<210> 32739

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B5

<400> 32739

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<210> 32740
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-B6

 <400> 32740

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 atgcaggatga atgggtgcttc aagtgcacat ccggatgctg tgactgaggt tcctggtaat 240
 agtgctacca caagtgatgc tggacacagc gagatcgaag aacaaccagt ggccgtctaa 300
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<210> 32741
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-B7

 <400> 32741

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 aggcagtact cttggtggtg ggtagccat atcagcccca agaactcgaa atgggtccag 420
 gaaaatctca gc 432

<210> 32742
 <211> 470

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-B8

 <400> 32742

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 aatgagcttg caccacagct tgttcagctc tgttttgccg tattgggcat gtggagggtca 180
 atgaaccatt tccatgagat acagaatgag attgttcagc aagtcctggg tctggtggac 240
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 ggagcccatg cctcgatgat ctgcgcgaa ctaccagct tctgtgacga 470

<210> 32743
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-037-Q1-K1-C12

 <400> 32743

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 aacaaagttg gctaattgacg cgaaggctgc caaaggagga ggtgaaaggc aagtcaatgg 300
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<210> 32744
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-037-Q1-K1-C2

<400> 32744

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gcagcagcag gcgtcctga tgcagcaagc gctgcagcag cagcagcagc agcagcagta  300
ccagtccggc gtcctcgccg ccgcgggggc ggcgggcatg acccagatgg aacctgggtc  360
caatggcaac cttncacctg ggtttgatcc ttccacttgt cgcagtgtgt atgttggaag  420
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<210> 32745
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 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C4

<400> 32745

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tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc  180
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gcgtggacag agaccggcaa gtcagagatc ggcaatagtg agctccagca ggagcctact  360
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<210> 32746
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 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C6

<400> 32746

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<210> 32747

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C7

<400> 32747

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<210> 32748

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C8

<400> 32748

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aatgagaact ttaggagatt tatgttagag tcggacaact ttaggcgtta tgttggtcgt 180
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cagtgggttc agcagacata tgggtgttctt ttcgacgaag atatctctga tgatgaggaa 300
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<210> 32749
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D1

<400> 32749

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 cctaccgagg cgacagccgc tctactacg agtggagacc cgtcgagatg tccatgcatg 180
 ggcgctgcct aatcggagaa gccgagctct ctgtcgaccg cggaagcctc gcgcttggaa 240
 actactgcta ctcagccaag gtcgcctacg tagtctaagg cacg 284

<210> 32750
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 32750

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 ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240
 tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300
 aggccaaaga ggtcaacacc ctgatcagac ctgatggana gaagaaggct tacgtgaagc 360
 ttacgcctga ctatgatgct cctgatg 387

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D10

<400> 32751

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gacgttgatc aacttcgcca atgatagga tgcctatagc aagtgggaag ctggtgacct 180
ggcctttaca ggtgctgctc atgcttactc tatggt 216

<210> 32752

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-D11

<400> 32752

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gaataaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120
aataaaaaaa a 131

<210> 32753

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F6

<400> 32753

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tggatcatggg cgtcttcgcc gctttggcta aagaaaatgc cctggttgag agcaaggcca 180
tcgacatcaa cccggggcag ctcaagtgtc gcaccaactg caacttctcc ttctcggggc 240
tctacacctg cgacgacgtc aaaaaggact gcgaccccggt ctgcaagaag tgcgtcgtcg 300
ccgtgcacgc cttctactcg ggcaacaaca agttcagggtg caccgacacc ttctcgggca 360
tgtgcggccc caagtgctag atcagagaag aagaacgcgc gctgctgcta gctgctatag 420
cttcgttctt acgccgacgg ccggtgcatg gttcacg 457

<210> 32754
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32754

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tctggtacac ccccatgtgt acacctggat cctctcctta cgcctataaa aggaaggatc 120
agggccctct tagagagggg tggccgcgcg gggacgggga cgagacaggc gctcgcttga 180
agccgctcgc tccctctccc gcgtggacgc ttgtaacccc ctactgcaag cgcacccgac 240
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ggcgacattc actcgctcggc ttaaggaccc cccggtctcg aaacaccgac accagtggac 420
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<210> 32755
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F9

<400> 32755

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tcttgcttat gtgcatgtga ttgtgtacgg ccattggtttt gaaagttggt atcggatatg 180
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<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G10

<400> 32756

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gcacctgcgc tgcggccacc gcttccactg ggcttgcgcg ctgccctggc tgcagggcac 180

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gaagcggccg aggtctctggt cttgctgggg cttgcccggtg ggacggcgcg gggcgccctg 300

tgcgtgtcgg cccacgccag ccacgccacc cccatggcgt tgcacgcta ggcagtggct 360

agtgggggtg gtcattggtga gtggtgaccg gcctgcttgt gtggcgcgga gcggaggagg 420

acagcgagac gcgcacgacg aaccctgtgag tgccttgga gttcttgca gctttgcgc 479

<210> 32757

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G12

<400> 32757

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cccctgcagc aattgttgca acaaaagcta tggtgtctga cccaagggca gagcctcggc 120

atgcagagag agtgccatat gttgtaatcc atggggaacc aggagctcgt cttgccgaca 180

tggttattga tccttatggt ctgctagaag ttggctcccc ttatagatta aatgaacaat 240

attacataac caagcagatt attcctgcat tgcagcgtgt ttttggactt cttggtgctg 300

acctgaacaa gtggtttaat gagatgcctc gcccatacg atcaactctt gcgaaacgcc 360

aatttgctgc tgctcatggt tcattctctc gtgatggcag tttcatccga ttaggattga 420

ataataaaac ctacgcaaaa ggaggcagaa tagatacata ctacatgtca agccact 477

<210> 32758

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<212> DNA

<213> Zea mays

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 ttccccctcct ttagttgtgg cttatgcatt ggctggcaca gttaatattg attttgagaa 180
 agaacctatt ggcattctga aagatggaaa agaggtttac ttccgggatg tttggccatc 240
 cacagaagag atagccgagg ttgtcaagtc aagtgtgctc cctgacatgt tcaagagcac 300
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<210> 32759
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G6

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 attgaaaaaa tgtttacttc ctatatgttt tgccatccac attaaacata tcctaagttg 180
 tcaagtcaag ttttctccct tacatgttca atatcacttt taattcaatc accaaaatga 240
 aattct 246

<210> 32760
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-G9

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 aagttgaagc cgaacgtgca ggagtacttg caggagtact agttgctggt cgacttcctg 300
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<210> 32761
 <211> 131
 <212> DNA
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 <223> Clone ID: LIB3068-036-Q1-K1-H1

 <400> 32761

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<210> 32762
 <211> 293
 <212> DNA
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 <223> Clone ID: LIB3068-036-Q1-K1-H12

 <400> 32762

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 gtgacgatga ggcaaacggt ggctgtcgga gtcacaaaga gtgtggagaa gaaggatcca 120
 actggagcca aggtgaccaa ggctgccgca aagaagaaat gatgtgtctg gctgggttctg 180
 tgtttgcttg agggaaacct agtggaacaa taaaatatct cgtcttggtc acgtcattgt 240
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<210> 32763
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-H5

 <400> 32763

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 atgcatggct gactagatgc acgacaacta catcatgggt taccatacca aggtcatgga 180
 gcatgtcctt tgactcttag acggctagtg ctccgaatca cctaggccaa ctgacagatg 240

tcttttctct ggaccataac gacttcgtcg agatcgagat cgatgacacg ctggagatgc 300
tcaagcatct atgtcgggtga ggtcagacat atcagcggcg aactgatcca ctttacgaca 360
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<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 32764

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gaaaggagag aagaaagacc atcagtgatg aacgctntcg agttaatctc tacgtctcaa 420
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<210> 32765

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-H9

<400> 32765

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gagaataaac agttctcatt acctcctctg atgacccttc tccttgggga acctggaacc 240
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gagaaatgca aagatacatg gagtaaactg gcctttgccca attcagcgt ggagaaccaa 360

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<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A1

<400> 32766

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tttttttttt taaaccattc ctaatctaaa ctttattaat tttctttaaa atcatttttt 240
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<210> 32767
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A10

<400> 32767

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<210> 32768
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-A11

<400> 32768

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<210> 32769
 <211> 245
 <212> DNA
 <213> Zea mays
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 <213> Zea mays
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 <400> 32770

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 tcctttgttt cgagctgcat acttggctaa atcntgcaag gcagatgtaa ctttgtagtg 360
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<210> 32771

<211> 205
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 32771

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<210> 32772
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-036-Q1-K1-C3

 <400> 32772

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 aactcaatca gtatcggatc acagatatng ccttgacaaa tcccggatta ttacagctac 180
 tgcgtgccat agtttttttt tatggcagat ccattcttgag cattatagac tgtcccggta 240
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<210> 32773
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-C5

 <400> 32773

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 ttcgcgcgcg agttcggcag gttcgccgac gtcgccaccg tgctgcagca ccaccgtcgg 420
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<210> 32774

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C7

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa tattaataaaa 180
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<210> 32775

<211> 180

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 32776

<211> 195

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-D1

<400> 32776

ctcttcattc aacgtggctg cgtggcatgg gaattatgtc ccttacaagg tgtgtngtat 60
gccattgtac acctgtctgc cattgagatg tgtgtcgtg ttcacttcac ccnctttctc 120
tttcagtatg atctgagtaa gttctgtcca ttcaacaccg tcctcttgga tcatggcgac 180
ccgtcagtga acaca 195

<210> 32777

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D10

<400> 32777

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cgaaggaagc cccacccatg gcggccaacg gcaagagcag cttgtcgaac gggcctcca 120
ccgggggaaa gcccatcaaa tgcaaagcgg cgggtggcgtg ggggcccggc gagccgcttg 180
tgatggagga ggtggagggtg gcgccgtcgg tgcgcctgga ggtgctcgtg aagctgctct 240
tcacctacat ctgccacacc gatctcagtt tcttgaaggg agagaacgag ctgcaccgca 300
agttcccacg catactgagc catgaggcat ccagagtggg ggagagcgtg ggtgacggag 360
tggaggatct tgccgcctgc gaccatgtga tccccatctt caacggcgag tgctgggcgt 420
gcgcttactg cgag 434

<210> 32778

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D11

<400> 32778

tccttaattc ccaggtctac ccactcttcc tcccactctt cctcccactc ttcctttaaa 60
aaaaaaaaacc aaaacaaaat acataaaaga aacaaataca aaaacaaaaa taagccccta 120
caatttttca acaaaccac aatatcccat cataacaaca taccaaactt cttatctctt 180

tccacccctct tacccaacct ccaccttttc c

211

<210> 32779
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D3

<400> 32779

cccacgcgtc ctaaaaaaaa aaaaaaaaaat aatttttaaaa aataaaataa tatataaaaa 60
aataaaagaa atattttaaaa attcaaacaa taaaaacaat aatacaaatt actaaactaa 120
taaaatttat ataatttat acaaatttta at 152

<210> 32780
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-036-Q1-K1-D4

<400> 32780

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cccacgtacg tacacccctt ccccaaagcc tccgacgccc aagccgaccc caccgacgta 120
cacccttcc ccaaagcctc cgacacccaa gccgaccca ccgacgtaca ctcccacacc 180
gaagccgccc gccaccaagc cgcccaccta cactccgacg ccgcccgtgt ctcacaccct 240
cagcccgccc ccaccatact actagaaagc gatgcctacc ataccacact gctgtcagtc 300
tctggagcat ttaggtggtc tggatcaatg gaagggttgt gtccctagcca gccggcaaag 360
atgagctgct gatggtaatg atgatgataa gaggccactg ctaccctact acgtaccctn 420
ctctttgtgt gctggcatcc gtccccgtta gacgatcgan gagagaa 467

<210> 32781
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D5

<400> 32781

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 actcattcat aaacatatac tcattactaa gacatctgtt aacttcatca tgacaaaaag 120
 catttgctca tcccactatc attttcatat acaattacac tccctaacta cacaattata 180
 ctctattatc aagaataaca taccataact aagctatcat attctacata aatcgtgcta 240
 tcctttcact ataattatat accttacacc ttcaatataa taactactta aatctttctt 300
 catttactac ataacaccat atctagatta aacctatat 339

<210> 32782

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-D7

<400> 32782

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 cccgcgtcgc tcccctcctc tgggtccagag cgtctgtgcg ggtgtgcgcg gacagtggcg 120
 ccaaccgcgt cttcgacggc atgcgggccc tgctccccgg ccaggacccc gacgaggttc 180
 gcgcgagtta caagccagat gtaatcaaag gggatatgga ctcagtaaga ccagaagtga 240
 aggagcatta ttccaacttg ggcaccagaa ttgctgacga gtcacatgac cagtacacga 300
 ccgatttaca caaatgcata gctattatag ctgataatta ttctgccact aacaaatcta 360
 accagctcag catcttggtt cttgtagcac ttgggtgaag gtatgatcac gagatgggat 420
 acatcaatgg gtcctatctg tgtccaagca taaatatctt cctcctatc 469

<210> 32783

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-E2

<400> 32783

caacaacccc ccaccgtgag ggacgcgacc aaacacacgc ccctcttcgc acctcccacc 60
 aaccgcgacg agcggcgatg accggcacgg tgtccaagct ggcgggcgccc cgtccggcgg 120

caccgccgct ccggccggcg tccctccgca ccgccgccct cgccttcgcc ccttccccgc 180
gccgagtcgg cgtttccgtc gccggggcag ccaggagccc catcattggc atgggttcgg 240
ccaaggaagg aagcgggtga ccgaccaaga ggactgcgct tcatgatctc tacgagctcc 300
agggcctgtc cncgggtgtac gacaac 326

<210> 32784

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E3

<400> 32784

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atggtggcaa cactggctga tttttatggt aatgttattg caatctcggc ttgggttata 120
tacaaggaag caaactgggt tagttctgct gtgtgggtgg ttctgttggt ttgctttggc 180
agtgtgtca cttgcgctta tattgttaag aaacttcttg aagtaacatc tgcagggtca 240
tcccaagatc ctcttgacct tctatttatc aggcaaggta atctatccca aagaaagtgc 300
tcttatgttg taattggaag ggttattttc agcattttgg ggatattcat ggctgcgggt 360
gtcacatata ctgtcatcac tgatggacta ccttttagga aggaattggt gacaccgtgg 420
atggcggcaa ccttaattga tttctacata aatgtctttg tgatat 466

<210> 32785

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E5

<400> 32785

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gttctagtat attttaattc ttgttttagct catcttaca catcaatcaa atcactaaca 120
aatcaaccac acaacccaaa ctcccaaacc aacaaattcc taaaccttaa tcaaacacaa 180
caaaataaaa catttatcca ataacaaata aacaaaaaac ctaaaaaaaa cctaataacc 240
aacaaaatta c 251

<210> 32786
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E6

<400> 32786

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tggg'gcgatt tggagcggag ggttttggaa gtcaaccgaa agaggataaa agtagtaaag 120
cctggatcta agacatcatt cccgagtact gaagtagcag gaacctacgc tccaccgttc 180
catgtcgagc tgtatcgcaa tgaccagcac cgcttcaaga ttgttgtcga cggtgatact 240
gaagttgact taatggtgca aacacggcac atgcgagacc gcatcatcct cagcatcaga 300
ggcctcgccc agaagttcaa cagcacctcc ctcaacacac ttctcaagat cgagtcatga 360
tagacctgac agtgtaaaaa ccaactataa cgggaagctg tacccttgt 410

<210> 32787
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E8

<400> 32787

tccacgcact cgtgaactca tctctttaac atttccacaa tctatggaac aacataggat 60
tagtgggctt catcttcaaa cgacgataat tgctgttatg gctatcagtc tgcacaacca 120
ttacctagtt catagaaaaa agattctgcc aaaccaacat acagcaagac ccattctaca 180
tcttgaatgc aacacttatt ta 202

<210> 32788
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C2

<400> 32788

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ttcagcaact acctgaacat ccaaccatca attaagattg catatagcac ccgagcttac 120
 cttctataacc ttgttggttc caccttggtt cctgacacca tgaggggatt tgtatcccca 180
 agatatctac cactgttggc agattttggg aagatccgtg agtatgcttg gggggctgca 240
 gcccttgctc atttgatatag gggattgtct gttgcagtaa cacctaatagc cacaacacag 300
 tttctcggca gtgcaacttt gctcatggcc tggatttatg agtatcttcc tattactcaa 360
 ccacaacaga agaaccagag cacattgctg ccccgggcta gccggtggaa ctttggagga 420
 gcaacacgtg gacagagaaa aaaggatcatg gactggagaa aagtttttga gca 473

<210> 32789

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F10

<400> 32789

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 gcatggggca gccgccgacg gactcgccgc ttctcgactc ctccgagcag gtctacatct 120
 cctccctcgc gcttctcaag atgctcaagc acgggagggc cggcgtgccc atggagggtca 180
 tgggtctcat gctcggcgag ttcgctgatg actacaccgt cagggtcgtc gacgtcttcg 240
 ccatgccgca gagcgggact ggggtcagcg tcgaggccgt cgaccacgtc ttccagacaa 300
 acatgcttga catgctcaag cagaccggca ggccagaaat ggttgtaggc tggatatcact 360
 cacatcctgg cttcggttgc tggctatcag gcgttgatat caatactcag cagagttttg 420
 aagctttgaa cccaggggca gttgcttgtg tgatagacc catccagagt 470

<210> 32790

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-F2

<400> 32790

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 cagagaaaga gtcagcttca tcttcaaacg acgataatgg ctgggatggc ttccagtcgt 120

cacaaccagt acctagttca gagaaaaaag attctgccaa accagcagaa agcaagaccc 180
 agtctacatc tggaatggaa gacttattta aagactcacc agctgtgcc tttatctcag 240
 ctccagctgt ttccaagta aacgctaaga atgatatcat gagtttgttt gagaagtcca 300
 atatggtatc acctttcgct gcccatcaac agcagctggc gctcatgtct cagcagcaag 360
 ctcttctaata ggctgctctc aaagctggaa atgcaccaca aatgatgatt ccagggact 419

<210> 32791

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H2

<400> 32791

cccacgcgtc cgcccacgog tccgcccacg cgtccggcag aaccttgaag ttaaaaagat 60
 aaatgatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgcgag 120
 agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
 tgaagctgag ctaaagcttt ctcgccagga gattgcaaat ctccaggatg acaacagagc 240
 tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
 aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacaagaacc aagagttgat 360
 caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgccaaaa 420
 gattgcagaa gttgaaaagc ttagccaaac tgtg 454

<210> 32792

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-H3

<400> 32792

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 gaagcctccg agacccaagc cgaccccgcc gacgtacacc ccttctccca agcctccgac 120
 gcccaagccg accccgcccga cgtacactcc aagccccaag cctcccacac acccgacgcc 180
 caagccgacc ccaccgacgt acacccttc cccaaagcct ccgacgccc agccgacccc 240

accgacgtac accccttccc caaagcctcc gacaccaag ccgaccccccac cgacgtacac 300
 tcccacaccg aagccgcccg ccaccaagcc gtccacctac acttcgacgc cgnccggtgtc 360
 ttacaacccc agcccggcgg caccatacta ctagaaagcg atgcctacca taccacactt 420
 gtgtcagtct ctggagcatt t 441

<210> 32793

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H6

<400> 32793

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 attggctgcc caggttgcag cataagcaac tttgcggaga gtacatgcag cccagaaaga 120
 tgatgacatg ccaccaattg aagccattct tgcaccactt gaagctgagc taaagctttc 180
 tcgccaggag attgcaaadc tccaggatga caacagagct ttggatcgtc taacaaaaca 240
 aaatgaggca gctctgctag aagcagatag gactgtgcaa attgctatgg caaaagctgc 300
 tatggttgac gatttgcaaa acaagaacca agagttgatc aagcaaattg agatctgccc 360
 tgaagaatat aaaatcttag attagctgca 390

<210> 32794

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H7

<400> 32794

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 ccgggggttcg gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
 tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccg 240
 ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 300
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggcccagtc ccgcggcggc 360

cgtggaggcg gcggcggcgg cgggtacggt ggtggccgtg gaggcggcgg ctacggcggt 420
ggcgggcgcc gtgatggcgg cggcggc 447

<210> 32795
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-H8

<400> 32795

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cgggtgcctct cgtttctctt ttcaataatc aagatgagcc gcggtggtag tgccagcggg 120
ggtcaaagtt ctctgggcta tctcttttga agcggcgagc cccccaaacc agcactggca 180
ccagctgcaa gtgtccacc tgttgagaaa ccatctgctg cacagactga tggggccaag 240
cacgttgctg ctgcggttac cagccaaacc aataactacc acagggctga tggtcagaac 300
actgtcaact tacttactga ccgctcttca accaatgtcc acgctgctcc tggcggtggc 360
tcttcctcgn gctacctgtt cgggtggcaac tgatgcccg gctgatgcgc tcaccaaagt 420
tatectcccc tgctgctgc gtgctat 447

<210> 32796
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H9

<400> 32796

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gcccttgccc ctgcctcgat cttcggctcc caatcctcgc tgctgctgct cccgcgccgc 120
gcgctgcccc ccccgctctc cctctctcac cgcgcattca tcgcggccgt cgcgaccaag 180
gaacccgagc tcggcggcgg cggatcgggg gccggcgacg gtgccggagg gagcggctgc 240
ggcagcgacc cgaggggagg agggcaggaa ggagactgtg aggaagagaa gatggggcag 300
ggcctgtcca tgtgcataa actcaccctc gcctacgccg cgctcgtcag aacttgtggt 360

gaaatgggat atatg

375

<210> 32797

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A2

<400> 32797

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aggggggatt cctggaccac gacggcagaa cgggaaatcg tgagagacat aaaggagaag 120

ctggcctttg tggccctaga ctacgagcag gagctggaga ccgctaagag cagctccttc 180

gtcgagaaga gctaccagct tgcctattgg catgtcatca cgatcggcgc gg 232

<210> 32798

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A3

<400> 32798

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caaactctcc gagggctctt gttgccagc ttgttatctt tctgctatca ctctcagca 120

ctgtcgcttg ccctgacgac gcacaaaact gcagctgcca accaaacgta tgctgcaaca 180

agtttgcta ctgaggcacg acc 203

<210> 32799

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A5

<400> 32799

gccaaacagg gcgactcaca actgttataa cgccaaaact gccatgtttc tcacgaggca 60

gacagggatc ctactaaagg cattttttgt cacaaaaaca tgctacgttc aaggaatgca 120

ctcctgctga gctagcggcc tatgccttca aaccagcaac tgaaaccgga atatcatatg 180

acaactaagc atcatgcatg ctgctcagca ccatacctag acagacgctg cacgttttagc 240
ccaatctgca aatcagaacc tacagattct gctgaatta tgaacttctt tccctactgc 300
acttctcgat atggtgctca tcatgtgagt gaatcagatc ttacttattg tcgattcgct 360
agaagtgtga ctggttaattg gagtctataa acccggtgta ggcttcttac atacaactgt 420
tactacaccc aagtttagtag aacccttgga ctacttgcc 459

<210> 32800
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A7

<400> 32800

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acaacatgcc aaacgcaagc gcaccgaggg tctcggcgga ccagcttttt actttctggc 120
tatcactcct ctgcgctgct gccggcccg ggcgcgcga gaactgcagc tgccagccaa 180
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gcca 244

<210> 32801
<211> 187
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-036-Q1-K1-B1

<400> 32801

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gctatggcaa angcaagcgc gccgagggctc tcggcgggcc agctgggtgac tctcgggcta 120
tcactcctct gcgctgtcgc cggcccgccc gncgcgcaga actgcggctg ccagccaaac 180
gtatgct 187

<210> 32802
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B2

<400> 32802

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atctcactga tccagtatgt ctagggctaa tggagacact ccaagggctc ctgcgggcca 120
tctgccaaact ctcgggctat cactcctctg cgctgt 156

<210> 32803

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-B5

<400> 32803

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gcgagtgggc aactcctga cgggacccga aagatcatct actatctctg agcctatcaa 120
atccatacga tactctcgtg caggctcgaa gccatactta cgtgcaaata gctcatctgt 180
cttgatataa ggttcgatac actaatccaa ccatctagta cttgggttcac tcttaacttt 240
ccctcagcat agctgtagcc cacactagtt ctatcggcta aagccaatga ttatatgcat 300
ccttttctca acgctcttta cctatcttca tactttacct agctatta 348

<210> 32804

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-036-Q1-K1-B7

<400> 32804

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aacactttct catatgagaa actcacgaag tctttttatc agttactact ttttgtatac 120
tcgtttgctt aatctctcga tattcattct ccaatgattc catatcattt aattactact 180
tgagttactt cattatactt ttcttttctt tttattggta attattcatt tttattttta 240
cttattttgt attatttatt ttctaattct t 271

<210> 32805
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-B8

 <400> 32805

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 aaaaagagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaagggcgcc ctttataaag aaccaaaagt aaattaccct 180
 tacttccaac ataaaacctc ttataaagac aaccttaaatt caaattaatt gccattgtt 240
 taaaaacctc aaaactggaa aaaccttgac atttccaaat ttaataacct taaaaaaaat 300
 cccctttt 308

<210> 32806
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-B9

 <400> 32806

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 gtatctgggt cctgatgttg atgctatgaa agctgtggcc gatgcctact caaaaggctc 180
 tctgaagtac ttcgaaactg ctctccgtga ttacaaagct cagctggaag aagatcctat 240
 tgtccacagg cacctttcct cgctgtatga cactctcttg gagcagaacc tctgcaggct 300
 gattgagccc tactcaaggg tggagattgc tcacatagca gagatgattg atctgccaat 360
 gaaccatgtt gagaagaagc tgtcccagat gatcctcgac aagaaattcg catggacact 420
 tgatcaaggc gctggctgtc tcatcatct 449

<210> 32807
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-H12

<400> 32807

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gttgaaggag aaatttgaaa agaattgttca agaggtagct gagaagttcc aaaacacaaa 120
cttgtatttg aagaacttag aggagaacat tgatgatgag aaattgcgtg aactctttgc 180
tgagtatggc aatattactt cctgcaaggt tatgcgggat tcgaatggtg tcagcagagg 240
ttctggattt gttgctttca aatctgctga agatgctaac cgagctctta cggagaagaa 300
tggcaaaatg gttggaaagc agccccctta tgt 333

<210> 32808

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-C11

<400> 32808

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ctgggcttaa aatgccggga cgtcagaacc cgtgaggcag ggattcagga tatccatcac 120
aagatccggc cagatgaagt agagcttgct agacgtgact atgctgcaaa tgaggggttg 180
gaaacattcc tctcttatga ggatacacga caggatatcc tgatcgggct gttgcgcttg 240
cgtaaattgt gccgtaattg tacatgccct gaacttgtaa ggaggtgttc aattgtgcgt 300
gagcttcatg tctatggaac tgcagtcctt gtgcatggcc gtgatgtgga caaactgcat 360
caccagggat acggaactct attaattggaa gaagcaaaaa ggattgctcg aaaggagcac 420
cgatcgaaaa attatctgtc attttcgggt tggtag 456

<210> 32809

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F12

<400> 32809

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acctttgcaa aattaataaa agaagacaag aacaagcagc cgaaaatgga atcatccctc 120
acttgatgaa atttgtcatg tcagactcac ctctgcggca gtatgccctg cctttgctgt 180
gtgatatggc tcatgcttct cgcaactcta gagagcagtt gagggttcat ggaggactag 240
atgtgtactt aaatctgctg gaggatgatg catgggcatg cacggcatta gattctattg 300
ctgtttgttt ggctcatgat aatgatcaca gaaaagtgga acaagcactg ttgaaaaaag 360
aggccat 367

<210> 32810

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F2

<400> 32810

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tacacatcat atgccggtga aaccccatct ttatctatgt ctgtacacca caactcgaaa 120
caatatgcta tcacaacact accaactact tttgatcacg gctttcctgc tctgtcagac 180
cctattacac atactgcgaa ctctattcat aatgggtactg ggaacaacca tacacatgag 240
aatcattggg tgtctcagga tgagcctcac tctgcagttc agttcacagg catttaggca 300
tctgttgatc aatatctatc tgtggcatca ctggaccaac ctatgt 346

<210> 32811

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F3

<400> 32811

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ggaatcgctg ctctctctg tgctgtcgat ttgtgcggcg actgttagtt tggttcggtc 120
ccatccttct gttgatcaat ggctgacggg gaggatatcc agccacttgt gtgtgacaat 180
ggcactggaa tggtaaggc tggctttgct ggtgatgatg cgcccagagc agtgttcctt 240
agtatagtcg gccgccctcg gcacacgggt gtgatggttg gaatgggcca gaaggacgcc 300

tatgtaggtg acgaggcaca gtcaaaaaga ggtatcttga ccttgaagta cccattgag 360
cacggtatcg tgaacaactg ggatgatatg gagaaaatct ggcaccacac cttctacaat 420
gaactgcgtg ttgctcctga agagcacc 448

<210> 32812
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-F4
<400> 32812

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gatcaaaaga acttggaaaa taaagatgat gtaccgaaca ctgaaaaagg ttcctcaatg 120
ggggtggatt ctgacttcac ttctgaatgt aaaacccaaa ctgtcaataa tatgaaccat 180
tctgggatta ctttaaaaga aaagagcagc gatcctcctg tcagtaacaa gaaacaggat 240
tctgcagttg agcctgcctc caccgcacca aagagaagaa aggttttgaa gacacgcata 300
gatgagaggg gaagggaagt tactgaggct gtttgggagg gtgaagggtc tgcagatgac 360
aaggcagaga agaatgtcag cacaactgct gcgagcgng cgactatccc aagcaaaccg 420
aaaccagcaa caagcaccga caaaatcaaa g 451

<210> 32813
<211> 191
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-035-Q1-K1-F5
<400> 32813

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tcccggccgt ttaatttact agtgtgttcg tcctatatgt ttagcagcag cagggtgtatt 120
gtgcggttat gtaatggtat tgcaactata ttgggtgtaa aaccataata aatgtgggca 180
aatatgcaag g 191

<210> 32814
<211> 438

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F7

 <400> 32814

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 ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc agggccgacg 180
 acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240
 gacctctca ccaagtgcgc cgacacctgc aagaactgcg tccccgtgtc cacggacaag 300
 ggggccatca agtacagggt cggagacttg ctccccgaaa actgctgctg caagatccac 360
 tatagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420
 ccatgttctt acgtccgt 438

<210> 32815
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F8

 <400> 32815

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 ttttatgatg taccctacac tgaatatggt ttctaaatgg aggtggataa tgacttcact 120
 tatgaatgta taaccaatac tgtcaatatt atgaaccatt ctgggattac tttaacagaa 180
 aagagcattt attctgctgt cagtaacaat aaacaggatt ctgcagctga ccctgccttc 240
 accgcaccaa agagaagaaa ggttttgaag acacgcatag atcacagcgg aaggggaagtt 300
 actgacgctg tctgagacgg tgaaggttct gcacatgaca aggcagagaa gaatgtcagc 360
 acaactgctg cgagcgggtgc gactatccca agcaaaccgt agccattacc aagcaccga 419

<210> 32816
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-G11

<400> 32816

attcccgttc gacgcacgca tgcggcacgc atccgcccac gcgtccgccc actcttccgg 60

gatatcatca aaacctgcat gaagcaccat tagtagaaat ttagcccat gttgcaaaag 120

cttaatgtta ccatgaaggc tgatgacaag gagttgattg gcaaagcttt gatgaagcgt 180

gttatgcaaa cgtggctacc agccagcact gcacttcttg agatgatgat attccacctt 240

ccttccccgg caaaggctca aaagtatcgt gtggagaact tgtatgaggg accccttgat 300

gatgtttatg caactgctat cagaaactgt gatccgtatg gccctcttat gctgtaatgt 360

tcaaaaatga ttccaacatc tgacaagggc atgttctttt gtcctttggt cgtgtcttct 420

catggaaggt tgctactggt atta 444

<210> 32817

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G12

<400> 32817

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gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaggac agacctaatc taaaaaaatc caaatTTTtac ttccccctttc 180

ttgcaaccaa ttactttttc ttttggttcc cctaatttaa tttaactggc ctgtatttaa 240

aaacttttta actggaaaaa ccttaacttt cccaaactaa taaaacttta agcaaatccc 300

ct 302

<210> 32818

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G2

<400> 32818

cggacgcgtg ggcggacgcg tgggaggacg cgtgggatag agtactacag tacagtatat 60

atatatatat gctgtactgc aggccacaca tacatatata atagagtact acagtacatg 120

atatagatgt atacatcgag ttctaaatgc tccacgaagc gggccgatat tattgaccat 180
tcaagcgaaa catttacata gcagacgacc gattctactg cgagaaccat gaaacagaat 240
tttggagcga atcctgtctc ca 262

<210> 32819
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-G4
<400> 32819

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tttgacaact cttacttcaa ggaacttctg agtggtgata aggagggcct tcttcagctc 120
ccaagtgaca aagccctgct gagtgaccct gttttccgcc ctcttgtcga gaaatatgct 180
gcggatgaga aggctttctt tgatgactac aaagaggccc acctcaagct ctccgaactg 240
gggtttgctg atgcttaa at agaccctatc ctggagtgat acattctgct gcatgtggtc 300
ttttgcatct ggagtcaatg tgaacaagca gattgtcgta ttgtctttct cgtaataaat 360
ttgtcaatgt tgagccctta ggcttgaatt gtgggaccct ttgntcgttt tcctagactc 420
tgatgctgta tgcaactgaa acgagtaa at ctatgatctt 460

<210> 32820
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-035-Q1-K1-G6
<400> 32820

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gacgcgatgc gcagcgtcgg gtccgcgtac gccgccgtcg ccggcgggct cggctgcttt 120
gtggcgtcgg cgatcaacac cgcggtggac gccgcgacgc gggacgatga ggaggggagg 180
ccgtcggtgc tggcgagaa catcaacgtg ggcaggttcg actacctgta ctggctgctc 240
gccgtgctca gcacagtcaa cctgctcggtt ttcgtcttct ttgccaagcg gtacaagtac 300

agggtcaggg tcgacgtgcc gaccacagtt gctgttgata agcagtagct agccgctagc 360
gccattacaa ggatttgagt ttggatgtgc tgtaactatt gattactggg aataccatan 420
aacatagatc 430

<210> 32821

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G7

<400> 32821

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tcagtaggag tactattagc gtgctgattc agacctcgag ctcgaggacg tagttattct 120
ataaaaaaaaa cgatgtgtaa tataacaatt gtactaaata tagtaaagaa atcaaaataa 180
tcttttagatc aatctaagat ttcgattccc agtaaaaaaaaa aaagaaatat aatagaaaaa 240
tatgggacaa aaaataaatc cactcggttt cagacttggg acaacccaaa atcaccattc 300
cttttggttc gcacaaccaa aaaattattc tgaaggctca caggaagata aaaaaatacg 360
gaattgtatc aagaactata tac 383

<210> 32822

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-G8

<400> 32822

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tgcgggtcaa tacaggggag attcaaggaa cctcttaagg ggcattaaca aggctttctt 120
ctaaatgcc aagacaaaa ccctgttttag agacctgtt ttactgcctc ctgtggcgaa 180
aaattatgcy aatgagaaag ctttctttta tgactacaaa aaagaccacc tcaaactctt 240
ccaactgtgg tgtgctgatg cttaaata cactatactg gactgatata aactgatata 300
tgtaagcttt tgcattctga gtcaatgtga acaaacaca 339

<210> 32823
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-H10

 <400> 32823

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 cgagaagagc agtcgccatg tctggcatca tccacaagat cgaggagaag ctccacatgg 120
 ggggcgacca caagaaggag gatgagcacc acaagaaggc cgaggagcac cacaagaagg 180
 aggaggggga gcaccacaag aaggacggcg gggagcataa ggaaggcatc gtggagaaga 240
 tcaaggacaa gatcaccggc gagcacggcg acaagtccgg cgaccacaag gaaaagaagg 300
 acaagaaaaa gacgaaggag aagaagaagc acggcgaggg ccacgaccac gaccacgac 359

<210> 32824
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-H11

 <400> 32824

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 ctgtctctgg ggtatacttt ccccgttcta ttgctaccgc ggtcttatg caatcgatcg 120
 gatcatatag atatcccttc aacacaacat aggtcatcga aaggatctcg gacgactgac 180
 caaagcacga aagccagtta gaaaatggat tcctatttga agagtgccta accgcatgga 240
 taagctcaca ttaaccgctc aattttggat ccaattcagg atttttcttg ggaagtttcc 300
 gcaagaaatt ggaataatat cgattcatat agaggagaaa gctctgtatc gatgcaaacg 360
 ctgtacctag aggat 375

<210> 32825
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-F11

 <400> 32825

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 gccgtagatt gacgacgagc aatggaacaa gaggttgccg tacattaggt atggtggtga 120
 cgggtggagct acccttgtga cgggtggtga taggttgggt gacaaggggt tctacatcca 180
 gccaacgatt ttctcagatg tccaggacgg catgaagatt gctcaggagg agatatttgg 240
 gcctgtgcag tcgatcctca agttcaaaga cctcaatgag gttatcaaga gggcaaacgc 300
 gagccagtat ggattggccg ccggcgtggt caccaacagc ctggacacgg ccaacaccct 360
 gacgcgcgcg ctccagggccg ggaccgtctg ggtgaactgc gttcgacgtc ttcgatgctt 420
 cgattccgtt tgggtgggtac aagatgagcg gcatcggggag ggaga 465

<210> 32826
 <211> 157
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D10
 <400> 32826

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 gagcatgtac tctcgacaca aagcgcactt caagatcatt acagagctta aagcgtccga 120
 tactctcggt gctacactgc aaacaagtgt gcatcac 157

<210> 32827
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D11
 <400> 32827

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 agggattgtc tagagtattt aaaaatgagc gctactacgg accaaatata ttacgccata 120
 caacctcctg acaattacat gggcatctaa tcatctacat gggtagaact agagcggttaa 180
 gaactagaag tcaactgtttc gaggtaaaat gtactttgtg aagatgtaac ttttttcagg 240
 aattgcacca ttgccgtcat caatcccaag agtgcttcat tcttttgtac aaatgcttca 300
 atcatata 308

<210> 32828
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D2

 <400> 32828

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 gaacaatagc aggggctggc tacttgagat tagcaggaag acctgccgtg cttacttttaa 120
 atactctatc ttattcagag aactttctgt acatgctgga ctctatgggt gacagaacat 180
 ataaacaaaa tctcgcactt gctcgagctc tagatattct ttctattctg catgctgaac 240
 atgaaatgaa ctgctgcact gctgctgtta ggcaccttgc ttcaagcggg gtggatgtat 300
 ttactgatct ttctgggtgg gttggagctc tatatgagcc tctgcatggc ggcgcatacg 360
 aggcagtact taaaatgtta aatgacattg gaagcatgga aaatattcca gatttcattg 420
 taggagtga gaa 433

<210> 32829
 <211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D4

 <400> 32829

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 ctggggaact actggggcag cattaaccaa acatgtgacc attcattaaa ctactcacag 120
 tacgtcctcc at 132

<210> 32830
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-D5

 <400> 32830

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gcaacgcaaa tctctgttat gctgccaccg gccggcaaag tagtggtaca ctaatataat 120
gctctccggt ttgattggtg gctcttgtgg tgtgtgggag ccacgtaatc tttgcttgga 180
aggggaattgc gttgtacaat gatgaaatgg gccgggtaat gcatgggact ctgggtcaagt 240
atttcgagtt aaaaaaaaaa aacatccaaa tttaaactaa tgaagaaata aataaaaggc 300
taattccgta aagttcttat caataggttt acattctgaa ttgagttaat g 351

<210> 32831

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D6

<400> 32831

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gcacctggga cccacctcc gaccgcgcca aggagctgcg caaggtcgcc gcggaggccc 120
aggaggaggc cgaggaggag gtcacggtgg atgagcagtc actcgacaag tgcctcgtcg 180
ggctccccag gggctggacg gctgataggc tcaagtcctt gctccaggat cagggaatct 240
cgtatgcaac 250

<210> 32832

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-D7

<400> 32832

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tcacctggga ccgcacctcc gaccgcgcac aaggagctgc gcaatgtcgc cgagcaagct 120
gaccaggaga ccaagaagga gtcacggcg gattagcaga tacctagaca tgtgcctcgt 180
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cacatctgca acaaatacaa aa 262

<210> 32833

<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-E10

 <400> 32833

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 aggggagcgg aggagacgcc tggcctcgtc cacctcacgc acatgacgga cctgcagtcg 180
 gtctaccacc tgcggatcgg cttcgactgc gaggcgtcca gaccgtctgc caccagcgcc 240
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 gcctacgggt ccttcgcgtt cgtcgtcgag aggatcaaac tctggaagct gatgatgcaa 360
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 aacggcctca tcgaaagggc 440

<210> 32834
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-E11

 <400> 32834

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 cccgacgccg acgccggcca ccccgacccc gaagcccgag aagccccca ccaagggggc 180
 gaagccggac aagccgcca aggagcaca gccgtccaag gagcacgggc ccaagccgga 240
 gaagccgccc aaggagcaca agccgacgcc gccacgtac accccgagcc ccaaactac 300
 gccgacgacg tacactcca ctccgacgcc cccaagccg acgccatcca catacactgc 360
 cgacctacg ccccaaaaa ctacaccaa aaccactgc cactcctgcg acgtacactt 420
 caagcccaa acc 433

<210> 32835
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E3

<400> 32835

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gaaatcagga gttggattca ataccaaaac gttccagggg gcatgctgat caagaacttg 120
aagtagagag aactgcacag gctggggttg aacaagagtg tgactctgtg ccaattgatt 180
ctgaggaaca cggttgctg acttcatatg ctcatactga tgatgagcaa gatgaggtga 240
agcagaaagt cacttctgaa acagcagatg ttctacatta tgcagcagac acttttaatg 300
ttaacacaaa ctcatggaaa gaagatattg aagaggatcc aactgaagct gctctaacag 360
ccatacatca aatttgttac gaacctttga cgagcatagt caagttctct ctagatcaca 420
gtgtctccga agaagacaga gagcctgata cgcc 454

<210> 32836

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E5

<400> 32836

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aatcatgac gtggattcaa taccaaaacg ttccacggag catgctgatc aagaacttga 120
agtatagaga actgcacagg ctggggttggg acaagagtgt gactctgtgc caattgattc 180
tgaggaacac gggtgctga cttcatatgc tcatactgat gatgagcaag atgaggtgaa 240
gcagaaagtc acttctgaaa cagcagatgt tctacattat gcagcagaca cttttaatgt 300
taacacaaac tcatggaaag aagatattga agaggatcca actgaagctg ctctaacagc 360
catacatcaa atttgttacg aacctttgac gagcataatc aagttctctc tagatcacag 420
tgtcttcgaa gaagacagag agcctgata 449

<210> 32837

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E6

<400> 32837

aaacaaaaac tgctctcctt ctagacctta tacaaaaaat taaaacgagc caaacatgga 60

gaaattttaa aactcctgac tttctaaagc atccaaattt cctccccat accttccaat 120

ttataactct tttatagtgc aacctaaact aaattcactt gccacattt tacaactttc 180

tgaccggtaa aacccttaca ttaccaact caatggcctt gctgacaat ccccattttc 240

taacttggcg aaatgccaac acgccctaac tcatcatatt ttccaacaat tccccttcct 300

taatgcccaa tgatacacct ccttttaacg gtcattaaac accttatgat cttggtgata 360

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<210> 32838

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E7

<400> 32838

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agcctccgac acctaagccg acccgccta cgtacactcc aagccctaag ccaccggcta 180

ccaagcctcc cagcccaag ccgaccccg tcaacgtacac cccttcgcca aagcctccga 240

caccaagcc gaccccgctg acgtacaccc cttctcccaa gcctccgacg cccaagccga 300

ccccgccgac gtactactca agcccaagc ctccacaca cccgacgccc aagccgaccc 360

caccgacgta caccctttc tcaaagcctg cgacgcccaa gccgaccca tcgacgtaca 420

cccttacctt aaagcctgcg acacca 447

<210> 32839

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E8

<400> 32839

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 gcaaggattg cacctacctg agcaactccag caatgaagat ccctgaaacc atgcaaaata 180
 tccatgcctg cgagaactgg ctgcccaagac ggctgatgag cgcttggcgc atcggcgggga 240
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 agaaagcatg gtcagctgct attaagcacg gattcgttcc tttgacgaaa gcctgaaagc 360
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<210> 32840

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-E9

<400> 32840

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 atcgttgccc aggaggtcta cttgggcacg aataagaaac tctttcccct caaactgatt 120
 gtggttccat cctcttctgt ctggaaaatg ttgtcaccaa actaccctat ttctgtttcc 180
 agtttggcat ggaagtataa gttgtgtact tctattctca agttgttgtc tttgtattat 240
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<210> 32841

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F1

<400> 32841

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 cagggcgctc cagtgtacc tgtcgaccac ggccggcccc atcgccggca tgctgttcgt 180
 gtccaccgag agggtcgctg tccggagcga ccgctcgtcg gcgctgccgc tgacgtctcc 240
 ggccgcgggc ggcaccacga cggtgctgcg ggtgccgtac aaggtgtcca tcccgtgctg 300
 cagggtcgcg gcggccaggc cgggcgagaa cagggaccgt ccggaccaca agtacgtgca 360

ggtcgtcacg cgcgacggct tcgacttctg gttcatgggc ttcgtcaggt accaggcgtc 420
cctgcaggag ct 432

<210> 32842
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-F10

<400> 32842

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gcgaagcagt tgggtctctgc cgctgaacg ccgcccgaat ctgcgaggcc tccccgagct 180
gcgtccgtcg tcagataagg cagacgccg caccggcaatg ccggttcctc ttgctccgta 240
cccagctcct ccggcgccat tcacgccgcc caatggggcc cagagccagc tcgtctgcac 300
cgggtgccgg aacctactca tgtaccacgc tgggtgcgacg tctgtctgct gcgccgtctg 360
cagcaccgtt attagacgtg ccggcttcat gaactgagat ggccgcagcta gtgtgcggaa 420
gatgccacac gcttcttatg t 441

<210> 32843
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C9

<400> 32843

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ttttattact acttcctgca aactaaaagc acattcaacc agaaatatac tgggcctgtc 120
tgggtccatca acagtgttg ccagaccgg cctattacac tacaggacac cacatgcatg 180
cgggtccattc cactgaccaa gcatgttgat gccataaaat cggcgcatgt gatcgctct 240
gagaaagctg caacggcgcc acgtttgtcc ggctaaaagt tcacatgcct ttcaaagtgtg 300
aaccacaataa taatgccgag cgg 323

<210> 32844
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-B11

 <400> 32844

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 aacagctaaa gctatagctc tggagtgtgg aatactagat gcaaatagtg ttatttcaga 180
 gccagttgta atcgagggaa aagtgttccg cgagatgtct gaaagtgcaa gaggagaggc 240
 cgctacatg ataattgtga tggggagatc ctcgccaaat gataaacttt tgcttgtcca 300
 agctttaaaa cgaaaaggcc atgttgtaac tgttactggt gatggcaca atgatgcccc 360
 tgcattgcac gagggccgct atatgtcttt caatgggcat ttcaaggaca gatgttgcta 420
 aagaaagctc tgacattata atcttggatg a 451

<210> 32845
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-B2

 <400> 32845

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 ggttgccaag ggagcttcta ggcagcccta caccacacgt caatcgggct ggctgagaca 120
 atggcacaga ctcttggcgg cgccaacgcg actaactgat cctcccgccg gcggccagca 180
 gatgctctgg ctgctagcat gcaaccttac ttagacgcgg caacacatta tacagctcaa 240
 catatcctag accctctaga tcaaatacat actccgaaat cacatatgta aggatgaact 300
 actgcctctt atactagggg ctatgactat agaatggcga tcattaggcc attaaacatg 360
 acttgcttga caacattcta aatgaagatc tcgtcatctt aatgcaagag atcgatct 418

<210> 32846
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B3

<400> 32846

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gaggcctttc gttgtcatca tgcagatcat gagtaacaca ccagatggct ttgccccctcc 120
cttaaagtga gggtagaaca ccatggaatg atgctgtgtg tgttgagcac cggagcttcc 180
ggaggcaaaa aaaaaaagga gatcgatgga taccactgtg gtttccagta acttgatca 240
gtttgtacag tggacgagtg gagttggccg ttgctgtttt tgatgtcgcc atggttgtgg 300
gtgaactcaa accttaaattc gtggtgtgct tagcatcttt cttggcgtgt caaactgtcg 360
ttgtgacttg tgagggatgg gactagttag ttgggttttg tagagttact tggttatcaa 420
tgtgcagaca tatatgtatg ccgcgatgag t 451

<210> 32847

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B4

<400> 32847

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attacttgcg aaggacttga atatgtagcg ataagcaggc ctctaccaat tatacgtggg 120
cgagcactat ttaaactcaa gatatctcag ctctcttcca aatgtgacaa taagctcttc 180
cgtattaaat tctctacact tcacatgcaa agatattctt ttctggaagc atattccaaa 240
ccgattcgct gtatatctcg aagccgcact gtccgccctt tgggtcctac aaagcgggcg 300
agttctgcaa cagcaaatga aattgacatg cttagtaatg gccaaagggt tgtagtact 360
gacaaagtaa atagtcgtgg acattcagtg tgtctgcata cgcccatgtt tccaagata 420
gaagatggaa tggtggaagt agt 443

<210> 32848

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-035-Q1-K1-B7

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tggattantc aagaacaaaa taactcacia aattaacatt aacactagat gcaataacac 120
cctaaaatat gactgaatcg attcctgata agaaattcat ccttaatatc tcgaatcatg 180
acttataagc atactgaaat tatccattat acttatgatt ctctccaatg actttgcaac 240
gtagatcaat gaacttgtcc ctgaataaat attatatcta caactatggt cattttactat 300
cacctaaaat tcatcatcgc tcataatcta acctgtctca taaaattttg acctaaactta 360
cattccatat tactagttta actgtctat 389

<210> 32849

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B8

<400> 32849

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atctcaagat atctcaactc tcttccaaat gtgacaataa tctcttccgt attaaattct 180
ctacacttca catgcaaaga tattcttttc tggaatcata ttccaaacct attcactgta 240
tatcttgaac cctcacttta ctcaccttgg gtctacaaa ctcggtctaa ttattcaaca 300
gcaaataaaa ttgacatgct caatactgac caatgttttg atagtactga ccagttaat 360
attccctgac attcagtgtg tctgcatacg cccatgtttc cca 403

<210> 32850

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B9

<400> 32850

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acaggagctg ctagagctaa ttgacccttt gttcctccac aaaacctact aagagcaaata 120
ccttagattg ggtggaaagg ttcatcaact actagtgcac ttcgtcctgc tgaaccaagg 180
aagatttcgg agattcctgc tgctgcacgc tacattacag tatctcatgc tgctgggaag 240
cattctctta ccacgcttgg ttttgatttg aatgttgccat atgaccaatc tctctaggaa 300
gatatccac agagttctgc acatactacc tgctctgaat ctggaaata 349

<210> 32851
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C1

<400> 32851

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atgccgctgt gaccacccgc tgcttggttt cttggaggaa ggaaattttg cttcaattgg 180
gcgctggtga gctagacccc tcctccagct cttgatccgg tccatggggc tctgccatgg 240
caagccgacg caaatcccgg aggctgaggc ggaggaggat cccacgtag cctccggcgc 300
gggacgaggg ggggacgggg cgacctgcc gtcggcggcg gcgcccgcgg cgaagccagg 360
cacgccgaaa cagcccaagt tcccgttcta cctgccgagc cc 402

<210> 32852
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C10

<400> 32852

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gaggacgagg accagggcgg tcgcgctgct gggccccagg gcacgaggag tgcaacgaac 180
aggagaaccg catggaggga gaagaggtag gggagtgtga agagggggtg cggacgtaat 240
gcggcggagg aagcggctgt ggacgacact gggagagagt ctatccgagt ccgcggtattg 300

tggtgcgac ga 312

<210> 32853
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C11

<400> 32853

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gaggagtacg tacagaactt gggacatgga aaccgtcgtg ggcgacctca tggcgaccga 180
gctgaggctt ggctgccgg gcaccgtcga cgactgcagc cagccccaac tgggtgaaggc 240
cacgccgccg tcgacgcaa ggggcaagag gcgcgccacc gccgatgccg tggaggaagc 300
cgccggcgcc gaggaggcaa gcaagcgtga cgccgagacg gcgcccccg cagccaaggc 360
gcccgtggtg ggttgggccg ccggtgaagt cgtaccggaa gagctgcttc cagcaggcca 420
gcagcaagca ggcggcagcg gccaaac 447

<210> 32854
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 32854

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gtggatagca atgaccgtga ccgtgttggt gaagccagag atgagctgca caggatgctg 120
aacgaggatg agctacgtga tgctgtgctg cttgttttcg ccaacaagca agatcttctt 180
aatgccatga atgtgtctga gatcactgac aagtttggat tacactccct gcggcagcga 240
cactggtaca tccagagcac ttgtgccaca actggcgagg gtctgtacga aggctggac 300
tggctgtcca gcaacattgc gagcaaggct tgaatatcaa atgcgaactg actaggagct 360
ccgatgtat caatggaaac ttaagacaga atcgctcta caacctgtta ggtgtcttct 420
accggcacia tatattnttt g 441

<210> 32855
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C2

<400> 32855

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gaaaaaaaaa aagagaaaaa aaaaaaac aatataaaaa accacaaaca aataaacg 120
accatccatc taaaaacccc tactttacgg cccctacat tcaatacact aaccttcatt 180
ttgccacact aaactagtag actccccac tttccaacc taatcacctt gcaaacctt 240
cccccttccc cacttattcc ccttgctaaa aatccccctt tttccaactt cccaacagc 300
tccaaagtct gaaccgacag tgcttccac cctttcccca gccttaatgc ccaataaac 360
cccccttaa acgcaccttt aaacctgcac 390
  
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<210> 32856
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-C5

<400> 32856

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ggcgaaccag tgcccgacca tcgacggcg cgtggagtcg ttcccgttca aggcgggcaa 180
gtaccagatg aagaagctgt gcctggagcc gacgtccttc accgtcaagg cggagggcat 240
cgccaagaac gcccgcgcg agttccagaa gaccaagctc atgacccgcc tcacgtacac 300
gctggacgag atcgagggcc cgctcgaggt cggctccgac ggcacgctca agttcgagga 360
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gttcctcttc accgtcaagc a 441
  
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<210> 32857
 <211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-C6

 <400> 32857

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 caagaaatgg cagaggatgg ccgcgcaagg gaggaagcgc ctcaccttgg gggcggcggc 180
 ggcaaaggaa gtcgacgagt gctgcggttc tgtggcgagc aagggccatt gtgcggtgta 240
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 agcctctgcc gagctagagc aggcg 445

<210> 32858
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-035-Q1-K1-C8

 <400> 32858

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 cgggtggacca catagccgca cggagcaact ggttcccggc ggcggcgcgt ctgtggacgg 360
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 gggaggaggt ggcgc 435

<210> 32859
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-B1

<400> 32859

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tatccaacca cctatatctt acttacctta cctccattat ccacattatg gactttgact 180
tcccttacct tacccaattt attcgcttat acactatcac cctttatgat ttcttgaatg 240
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ctcaccagac catgtatgct ccattacttc ctctcgcttt gccggctccg cccatgcctg 360
acatatctct tcctacac 378

<210> 32860

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G5

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gtggtgctgg cggagcacag cgcggcagcc accaacgcgg gcgctatcgc gcgccaggtc 180
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agaagacgga ttcccttcgc atttttggag gatattcatg gaaggtttgt caagacatat 360
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agc 423

<210> 32861

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G6

<400> 32861

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 gaccgaggtg caccactggc ccgagggggg ccagcacggc gcggcgggcg cggcgtgggc 180
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 cgacgacgac cagctcctgt ccatgttccc acccgacgag gccggcggca gcggcgggcg 360
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<210> 32862

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G7

<400> 32862

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 ggtggaaaca gagaacagga actctttgat caaagcttgg gaagagaatg agaagacaaa 180
 agctgacaac aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa 240
 agcaaacata gaagctgaac tgaagaagat tgaggaacaa ctggaaaaga agaaggctga 300
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<210> 32863

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G8

<400> 32863

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 gggagctaac acaaattcac taactctttg atcaacaact tgtgaagaga ataaaacgac 180

accatctcac aactaagttg ctttgaaagt attcgctatt ctttcatgtg acatcacaga 240
gaaagcactc attcaagatg aactgaagaa catttatgaa caact 285

<210> 32864
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-034-Q1-K1-G9

<400> 32864

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agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180
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cccgtggta cgagaccgtc tctggggctg tagcctcaag attccctggg aaggctgttg 300
gtgtaaactc gcctgcggga tcagctcctg cggcagctgc tcctgcggat gaagctgang 360
atgatgatga ccttgatctt ttggtgatg aaa 393

<210> 32865
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H10

<400> 32865

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ggcccatgcc accccttagg tctgctggtt cctcgagacc tcaaagtttt attacaagag 120
atgctcctga cacgtcaagg agccaacat atgctggcaa atccaccatt tctattgata 180
cagtacagag gactaatgga atcactccat ctactgcagc tctgctaag gccctgtta 240
tggatgaagc cccgcttaca gttactggat tgctgaactc gttgggtctt gagaagtatg 300
ttgttctttt tcaggctgag gaagtggatt tgtctgcatt gaagcaaatt ggagagagcg 360
acctcaaaga catgggggta ccaat 385

<210> 32866
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H11

 <400> 32866

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 cgcacctggt gctgatacctg tgcctccagg ccgctctggt catgggcgtc ttgcgcgctt 120
 tggctaaaga aaatgccctg gttgagagca aggccatcga catcaaccgc gggcagctca 180
 agtgctgcac caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa 240
 aggactgcga ccccgctctg aagaagtgcg tcgtcgccgt gcacgcctcc tactcgggca 300
 acaacaagtt caggtgcacc gacaccttcc tcggcatgtg cggccccaag tgctagatca 360
 gagaggaaga acgcgcgctg ctgctagctg ctatagcttc gttctttcgg cggcggcccg 420
 tgcatt 425

<210> 32867
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H12

 <400> 32867

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 cgtgtacgag aggcacgagg cgaagaagga cccggagcac gcgcagcggc acaagatcga 120
 ggagggcgctg gcggcggttg ctgccctggg cagcggcggc ttgcggttcc acgagcacca 180
 cgacaagaag gaggccaaag acgcggcgga ggacgccggg gaggaggagg agtcgggccg 240
 ccgcggcgag gggaagaaga agcaccactt cttcggctga tcgggctgct gctcgatcga 300
 tctacttgcg tacgtaggct gtcctccagg accagaagga gcatgcatgg agggcgaacg 360
 aagtcacggg ggtttgattg cccgtctatg tatatcatgt gtagttactg atgatgtgtg 420
 t 421

<210> 32868

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H3

 <400> 32868

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 agaggctttc ctctcggcgg ggtagatctt cctgacttac ccaactacac agatcctaata 120
 gtctctaaca cccttacgtc catctaggcc gtctcttagc atatgctcca gttgctatct 180
 tgcattctat ttacaggt tactgttatt aactctcaca cttgttcttc ttctctatgt 240
 ctcttcaact attacttatg acaaacctat taaatcatct gttactctcg tactataatc 300
 aa 302

<210> 32869
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 32869

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 acgggctaata taaggccggg gcatccctct tctagctcgt ttcattatcc atggctgagg 120
 agaagcacca ccaccaccac ctgttccacc acaagaagga cgaggagcag gccgcggccg 180
 gcgggtacgg cgagtccgcc gactacacgg aggcacgggt gacggaggtc gtgtccacgg 240
 gcgagaacga gtacgacgag tacaagaagg aggagaagca gcacaagcac aagcagcacc 300
 tcggcgaggc cggcgccatc gccgccggcg ccttcgcact ctacgagaag cagcaggcga 360
 agaaggaccc ggagcacgcg caccgtcaca agatcganga tgaggtcgcg ggcggcgcg 420
 ccgtc 425

<210> 32870
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-H6

<400> 32870

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tgacgttgca atctcttacg acacaatcgt gaagggtgatt cacatcgctt acacattaca 180

ggtacaggag caacctgctt tcgaccaga gtcaatgtga tattacataa aaagatacat 240

catgaatttg actgctgagt gctacactta tactgcacat gtcatgtcat tggacatcgt 300

cggctctaaac taatgcttaa ctagcaagct gttggacctt gaatccgtcg atcccgatag 360

cttgaatgac gatacgctcg a 381

<210> 32871

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H7

<400> 32871

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aaactgttca gattgcaata tctgcattgc aatcagttct ccaggaagat ttcaaggcca 120

ctgagatcga agttggtgtt gtgagaaaag aagaacgtct tttcagagtt ctcaaacag 180

aggagattga ccagcacctg acggcaatta gtgaacggga ctgagctgcc atatgttgga 240

catttgatcc ctacacactg cgccgtgccca ttgtgcttca gcaactgccat ttagtttgac 300

atcaaatgaa ctgagtgtac catttcatgt ctaacactga aaacaagctc gttgattgaa 360

tttggcacag tttggttttg cattgctaaa aa 392

<210> 32872

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-H9

<400> 32872

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actccatcgc cggccagtcg ctgcgccatg ccgagctcct ggcgccggat cccctgtgag 180
ctttctccgt cggccatgga tgccggtgag cttatccctt ggtgccgcga gctcgctgta 240
gagttttaag cacgcttctt ccctgctgcg cagctccctc agcgcttcctc ccgtgcttgc 300
gctcgcccat ggtggctccc tgtgctcggc gctccagctc gtccggccgc ggccctcgctg 360
aactgctttg ccttccatgg ccgcgtcaag cttgggaccc tgcttgct 408

<210> 32873
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A3

<400> 32873

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ggatgatgat gggaggccac tgctacccta ctacgtacc tctctatgt gtgctggcat 120
ccgtccccgt tagacgatcg aggcgagaat aacgcatagc tctctgctac cggcctgtct 180
tctgccgtcc cggccgttta atttactagt gtgttcgtcc tatatgttta gcagcagcag 240
gtgtattgtg cgggtatgta atgggtattgc aactatattg ggtgtaaaac cataataaat 300
gtgggcatga tatgcaaggt 320

<210> 32874
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A7

<400> 32874

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taagaaagaa tgttttgctt cttgcctctt catttgctac gacctgatcc ggccagatgt 120
ggctcttgag cttgcatgga tgaacaacat ggtggacttt gccttcccgt acctgttgca 180
gttcattcgt gaatacacta gcaagggtga tgatttagtg aaggacaaga tcgagtcgca 240
gaaggaagaa agagccaagg agaaggagga gaaagacctt gtggctcagc agaacatgta 300
tgcgagctg cttcctctcg ctttgccggc gccgccaatg cctggcatgg gtggctcctc 360

acctccgatg ggtggaatgg gcatgcctcc catgggcggg atgggtatgc cgccgatggg 420
ccctggtcgg atgccagcat tcgg 444

<210> 32875
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A8

<400> 32875

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gttccctacc caaaccttag agcaaagctg aatggccctc gccacgagct cgcgagagac 120
tctgcgccgc cgccggtgac tgctgatccg cccgccgccg ccgcgcccg tgetctgtca 180
cgcaggaggc gacggtatgg cgtcgaggca gcacaatgca cagttccaca aatccaagac 240
gctcgacaac aaatacatgc tcggagatga gataggaag ggggcgtacg gccgcgtata 300
caaggggctt gacctggaga atggcgattt cgtggccatc aaacaggtct cgctggagaa 360
cattccgcag gaggatctca acataataat gcaagagatc gaccttttga aaaatcttaa 420
tcacaaaaat attgtcaagt atctggg 447

<210> 32876
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G4

<400> 32876

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aataagcaat gtcgacaatt gcgacatccc tcggcctgct aatccgtccg ccaagatcat 120
cagctggtac gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180
ctgctgagaa gaagcggcct cgatccatct gttactctgt ggatgccaaag gctaacgacc 240
atgccttcaa catctctccc gttgcccttg tgcattccaa catgccgcca acgtcgacgc 300
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360
aggggtgctac aacggggcgac ttccagggtg ccgtggagga cgatgtgctc atcatcaaga 420

gcacg

425

<210> 32877
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E1

<400> 32877

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cagctgtatg ctgattacat gaagagcttc agggagaaca tggcagactt cttggatgct 120
ggtgtcgttg tggacattga ggtgggactt ggccctgctg gcgagatgag gtacccatcg 180
tatccccaga gtcagggatg ggtgttccca ggcgttggag aattcatatg ctatgataag 240
tacctgcaag cagacttcaa agcagcagca gaagaggctg ggcacacctga gtgggatttg 300
cctgatgatg ctgggacgta caatgacact cctgagaaga cccagttctt tgcggataac 360
ggaacatacc agaccgacaa ggggaagtgc ttcctcacat ggtactcaaa c 411

<210> 32878
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-034-Q1-K1-E10

<400> 32878

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ttacatgtgg gaggagctat atcaaagcga ctgacggatc ccgaaattat gaaatatatt 120
gaaaaatcta tgagcatgcc angagttaca ccagtatcct gagctgatga agctgcgtga 180
gaacgacata ttccagatgg tgtatttccc ggtgataaat gaagcctgtc gagtccctga 240
ttagggatgc gccgtcaatg cttctgacct agacatcagt tcaatctttg gcatgggggt 300
cccaccttat aggggaggtg tcatgcactg ggcagattcc atcggcgc 348

<210> 32879
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E2

<400> 32879

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ggcaggtgta tactgattgg atgaaaaagg tcgaccgata tcgaggaccc actttttacga 120

tccacgtggt gctacgcaca aattcgatgt ataaaggccc ctatattgaa accaagttcc 180

aatgttttac acgtagttaa acatgaaaac cctggggaaa cccaccttat ttcccttgta 240

ataaataccc tttaaaacac ttgttttaaa aactaaaaga ccctcaacaa tctcctttcc 300

aaacagtctt ttcaacctgt ttgcgaaatg 330

<210> 32880

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E4

<400> 32880

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ctggtagacc tgatgcgggt gtgaatacaa cgcgtcgtat accgagttct ctctaccga 120

ttttcaaggg ccgccttggc gcacagtaca ccgctgcgat gtgcgatagc tgttccagtc 180

gatggaccct acctgcggct gaaccgactc cagggttggc ggaccgttaa gcataaaaga 240

taactcttcc cgaggcccca gccagcgtat ccatgatttc taacatcgtc agctgcattc 300

acgtgccggc tctggaaatc tcaacgcgac tccctttaag acgacgcgcg ttatcgctct 360

atgtgcacag tttaacctaca tcattaagat ctgctt 396

<210> 32881

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E8

<400> 32881

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gacggcgagc aagcagcagc tggagggcat caggaaggtg gccaaagctcc aagctgagtg 120
caggaggctg caggccgcgg cacaacggag ggcgtcctcc gtgaacgtcg agctccggcg 180
tcctcgaacc tcggcctgct tcaagtgggtt aacggttggc cagcggacct gttcgaaacta 240
agggccctgg tccttgtgaa cggacctgac cagttcaaga a 281

<210> 32882

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E9

<400> 32882

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agggcaagag gaaagcgact cctgatcctg aaattatgaa atatattgaa aaatctagga 120
gcatggcagg agttacacca gatcctgagc tgatgaagct aagtgagaaa gacatagtcg 180
agatgggtgtt tttcccggtg ataaatgaag cctgccgagt ccttgatgag ggtatcgccg 240
tcaaggcttc tgacctagac atcgcttcaa tctttggcat ggggttccca ccttataggg 300
gaggtgtcat gactgggca gattccatcg gcgcaaagta catccatgga aagttggagg 360
agtggacaaa gcggtatggg ggcttcttca agccct 396

<210> 32883

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F1

<400> 32883

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ccactacctc tatgctaaac cagtaattcc atcatataaa gggctcctca tcacatctgg 180
gtccatttt ccatacgatc ctcataatag cctgtccacc ctattaccat gccactttct 240
cttatctttt ccctgtctt caaaccattt gaacctcaaa at 282

<210> 32884

<211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-F11

 <400> 32884

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 ccaatgcccc cttctatttc tacacacttt ctaacgtcgt aatctgacga tacatcccaa 180
 atgcggaat cttaacacct attcctttat catca 215

<210> 32885
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-034-Q1-K1-F2

 <400> 32885

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 gatcaccaac agtgccttcg agccattctc catgatggcc aagtgcgacc cacgccatgg 180
 caagtacatg gcctgctgcc tcatgtaccg tgggtgatgtg gtccccaagg atgtgaatgc 240
 tgctgtggcc accatcaaga ccaaacgcac catccagttc gtggattggt gcccgactgg 300
 cttcaagtgc ggcattcaact accagcctcc tagcgttgtg cctggtggcg acctggccaa 360
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 catcg 425

<210> 32886
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-F3

 <400> 32886

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tacaatacac ccaaatacag atttgttgag cgatttacca acatggacat cacagcacia 120
atcatctctg ctagtatagc aagtgatatg gatcttgctt ctgcttactc gcatgagttg 180
ccacgatatg gtcttgaagt tggctcgacc aactatgcag ctgcctactg cactggcctt 240
ctgttggctc gccgtgtgct caagaccctg ggtttagata aggaatatga gggcaatggt 300
gatgccactg gtgatgattt ctctgttgag ccagctgatg agaggaggcc tttgcgtgct 360
ctctaggatg ttggccttat taggactaca actgggaacc gtgtcttggt g 411

<210> 32887

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F4

<400> 32887

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ccgctcctc cgccttgcgc ccaccctcg cctcgcgcg cccttcgctg caaaggctcg 120
tgcgtctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgcccggcg 180
cgagctcacc gccccaccg agggcatcgg caagccgctc gccgaggtgc tcaaagagct 240
cgggaagagg gttccggact cccttgtcaa gaccgcgctc gagaataatg gcttcgctat 300
caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360
gggtgaggta cgcagcattg tttactcatt tgacgggaaa acagtatctg gtgtctatcg 420
agtgactc 428

<210> 32888

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F6

<400> 32888

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gggacactta gaatcggggg gcgaaccaag atcagaccat cttgcgattc gggcggctctc 120
gccgtccgaa ttgttgtctg gagaggcgtt ctcttgact gaccggtcct aagctctgtg 180

gaaaggtacg cctgcgacgc ttagtgcccc gtccctgccc gaccctgtct ctccacgatg 240
cgccgtcaac tagtcaggtc gtttgccaat gcaccctaaa tcatgcgggc aactctgtcc 300
atggcttaat acatgc 316

<210> 32889

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G1

<400> 32889

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cggggatgat gacgatgtcg gagccctcca gcgcctcccc gagctggctg tcccccatga 120
acccttcac cagggcggtg gagttgatgt gggagacgtc ggccgcgacg ccgggggtgc 180
cggcgatatc gtagaggag agggaggaaa cgagcgggtt gagcttcatg aggagcgaga 240
gcggtgccc gatgccaccc gccgcgccc ggatggccac cttgcgctcc ggattggccg 300
aggacgcgta gccgcggctg cggcggtatga gctcgccgt ggacttcagc agcgacagcc 360
tcatggcggc ggctgggtcg gggatcactc gctcgggcgt gtctcgctgt ggattgggtg 420
ggggagc 427

<210> 32890

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-G10

<400> 32890

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cagccttctg atcgtcaccc atggccactg ccgagggtcca gaccccgacc gtcgtggcga 180
ccgaggaagc gccgggtggtg gagaccccg cccgcccgc cgtcgtgccc gaggaggctg 240
ccccgcgcgc cgaggccaag gtggaagagc cagctgcccc ggccggagacc gagccagctg 300

ccgncgctga gcccgaggcg gcccccgctgg cggcggagga agagacgcca aaggaggaag 360
agacggcaaa ggaggcggag cgggagccgg agccccgcg 398

<210> 32891
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-D8

<400> 32891

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gtgcctgcga ggccttgctt tttatccaag gggaggttcg ttgaatcgat tgccaccac 180
tttacaactt cttgaccggg aaaacccttg gtttaccact cttactcgct tgctaccact 240
tacccttctt cctaacggtc tttcacacaa tctggctcga gccaaagctca cttccctcct 300
ttttccccgc ttatttcgcc aatggcactc cctttgctgc ggttccttta gatcggagac 360
tggg 364

<210> 32892
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-G12

<400> 32892

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gcgatctaga aagaacgatt cttcttcgaa gcatgaacca acccgcacct gccctcaaag 120
cagatacgaa tcacggaaac ttgctctctt ctgaagcgca gaaccagaaa acccacggcc 180
tgttgcttga ttagaaaaag gagatccacg gcctgtgagt aactacgcca tgttacgaat 240
cacagcctga cttgctctag atgaaagcat aggtagtgcg gacctattgt tttcttctca 300
gcggaaccaa tgagtaacta cgccatgtta cgaataaaag cgagggaata tcggatgagc 360
aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaac 417

<210> 32893

<211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-B6

 <400> 32893

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 gcatgcatta ttacttagag aacacaacta tatacttaca tctcatatta accatgcgca 120
 tgtattactt tactacactc atatccatca atcaaaaata aatcaaatca aactatactc 180

<210> 32894
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-B7

 <400> 32894

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 agatacgtgt ggcagatttg catggtacgg ttcatttatc aaattatgcc caccctctct 180
 ttgtatgttg tggctccatg tgcgagcacg ctgtctgtcg tgacacctgg ttcgtcagat 240
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 tatgaatggc ttggac 316

<210> 32895
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-B8

 <400> 32895

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 cacacgggcg tcatgggcct cttctacatc ctcgtggccg accacgcccg gcagctgccg 180
 ccgcaggagg gcctgtgctt cagcttcccg gtcccatggt gcctaccgtc atggctgtcg 240

agcaacctgt gagatctttt ggtgttgaaa gctggtgcta tgttctaatt agctgcttgg 300
 ttaggggttcg gttcggggct ggtgatggta gggcaaatta agcaaggaag gccgcgtggg 360
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 tc 422

<210> 32896
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C1

<400> 32896

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 tgatccaact agccttttctg atatacagat taagcgcata catgagtaca agagacagct 180
 cctaaacata ttgggagctg ttacagata caaaaaatta aagggaatga gtgcagaaga 240
 gaagcagaag gtcacaccgc gcaactgtcat gataggaggg aaagcggttg caacatacac 300
 taatgccaaa agaatagtga aattggtgaa tgatgttggg gctgttgtga acaatgatcc 360
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 agtgcttatt cctg 434

<210> 32897
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C10

<400> 32897

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 ctctctcagc ccgagatccc tccccaccga gatcccgcgc cgccatggtg tcgtgacggc 180
 ggcgaggcg gcgtcatgga gcgggagccc aagtcccccg acgaccgccc tgagcccget 240
 gcggcgggcg cgacagccga gccgctggag tggcggtttg cgcaggtctt tggcgagcgc 300

gccgcgggag aagatgtgca agatggtaat aaattcaacc ggccgctggc ctcttcggat 360

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<210> 32898

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-C11

<400> 32898

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gtggccatgc cactcagagg atcagatggc gcgtgggtgog tgtgccgacc ggacgtgtcc 180

gatgcggcgc tgcagaagac gttggactac gcgtgcgggc acggcgcgga ctgcgccgnc 240

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gtcaacagct actttcagca gaaca 325

<210> 32899

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C12

<400> 32899

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cgtccactgg gcagtgtctc acaggctcat atccgattcc gatccctaag acctcagccg 120

ctgcggcatc caccgtcaac tcaagcgctg gcaactggca agggcagatg atctgtgtat 180

agcactcgct accttctctt gatttcccc tcaggctcgt gaccaagggt cctgtccgcc 240

atggatgcgg agcgaagctc tgcacgcagc gccacacctt ttgggtccgc gtgcgatcgc 300

caccgctaga cgccacgcct gcggtgcctt cccgggtgaa tcgcctattg cctaggaggt 360

gtaacgcctg ctgtcggcgc cagactcccc cgaggtagcc gcgagacac 409

<210> 32900

<211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C2

 <400> 32900

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 ttgatccaac tagccttttc gatatacaga ttaagcgcac acatgagtac aagagacagc 180
 ttctaaacat attgggagct tgttacagat acaaaaaatt aaaggggaatg agtgcagaag 240
 agaagcagaa ggtcacaccg agcactgtca tgataggagg gaaagcgttt gcaacataca 300
 ctaatgccaa aagaatagtg aaattggtga atgatgttgg tgctgttgtg aacaatgatc 360
 ccgaagttaa caaatatctg aaagttgtct ttatcccaaa ttacaatgta tcagtggctg 420
 aagtgcttat tc 432

<210> 32901
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C3

 <400> 32901

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 cggcgactcc ttcagcgcca cctccatcaa ggcctacgtg gccgagttca tcgccaccct 180
 cctcttcgtc ttcgccggcg tcggttccgc catcgcttac gggcaactga cgaatggcgg 240
 cgcgctggac ccggcggggc tgggtggcgat cgcgatcgcg cacgcgctgg cgctgttcgt 300
 gggcgtgtcc gtcgcggcga acatctcggg cggccacctg aaccgggccg tgacgttcgg 360
 gctggccgtg ggcggccaca tcaccatcct gacgggcgtc ttctactggg t 411

<210> 32902
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C4

<400> 32902

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gtgccgtgtt tctatctcga cgacggacgg atgccgggca actcgggctt cggcgtgagc 120

ttcttcatca gtaacgcgcc aacaatggga tggctggaca ggcaagccat ctgctccgtg 180

gtccttgctt tctacgggac cgtctacagc ctggactacg accagctcgg cgagctcggc 240

aacgggctgc gcgattcccg ttgggcgatc atcagggtcg agaggcccg cgaggcgcag 300

aacctgtctc aagatctcga cgacgcctgc agggg 335

<210> 32903

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C5

<400> 32903

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caactgatga aattagaaaa gaagaggatc ctgttcacat cattcaagca tcagagaaaag 120

agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgtcatg 180

ataaattaca gacaaattct gaaaaggaag agtcaccctc aaccgcattc caatgaacca 240

tacaatgtgg atgctaaaat tgatgatata acatctctat gcgaagaaat aatccatgac 300

aatacaagta taaatcctag agaaattgaa gagataggag aaaacaaagg accagacttc 360

acttctgaac cttctgtaga atcatccata cagaacaat 399

<210> 32904

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<212> DNA

<213> Zea mays

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<400> 32904

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caactgatga aatgggagaa gaagaggatc ctgttcacat cattcaagca tcagagaaaag 120

agatcgcaga tgaaatagaa gaaagtaaag aaatacatga agacaatgct atttgtcatg 180

ataaattaca gacaaattct gaaaaggaag agtcacctca accgcattcc aatgaaccat 240
acaatgtgga tgctaaaatt gatgatacaa catctctatg cgaagaaata atccatgaca 300
atacaagtat aaatcctaga gaaattgaag agataggaga aaacaaagga ccagacttca 360
cttgtgaacc ttctgtagaa tcatccatac agaacaatgt tgaagactca agcagtcatc 420
ac 422

<210> 32905
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C7

<400> 32905
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cacatcatta cttcattaac acctgaaacc tcaaactacg tagatctaaa tgatcaatta 120
catgcacact cacctattcg tcatgatcta ttacatacta atcatactaa ctaataccca 180
cctgttccac actacattta tcctctcaat gagcatactt taatacacca t 231

<210> 32906
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-C8

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acatcattca cccatcacag aatattatcc catatcacac ccaccatagt atatatatac 180
atgcatacac ccctcttcgt catcattaat tactaacaaa ccctctacat cactattcac 240
ctaccaccta ttccaactca ccatacaatt tcgtactac cactgatcat tcatcttctt 300
tattctaacc tacaatccac gacaacacac ctctaaatcc tatatcacc tcatacataa 360
tataaaacac cctaccatac ttcacttctc atcctt 396

<210> 32907
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-C9

 <400> 32907

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 cttcaacgtc cgcggaacca gctgcagcgg ccggccgagt gccgcgcagc gccgcggaag 180
 ccgggtgtggg cgcttcgctt gccttcgacg cccgcccaaca agcgcagcag gccgtctccg 240
 ccctctccg cgggcgcggc tcgccggggc ttcttccccg tcgcgcgacc tcaccaccgt 300
 gttctgctcc ctgccgccca agaagcggat ccgcgtgggt tgaccctggc g 351

<210> 32908
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-D10

 <400> 32908

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 gtacactggg gaactcgctg cgctctttga gtctactg 158

<210> 32909
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-D2

 <400> 32909

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 cagcacttct acgttcataa cggtcgtttt cttaactcgg tgtcccataa ttattctcta 120
 tgctctaaca catcattctc ccttaccttc aaactgtcct agcatatacc tacgcatac 180
 aactctct 188

<210> 32910
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-D3

 <400> 32910

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 atcgtctccg ctttggatga atggattcaa acccatcgtc gtttgctttt gctcctcgcc 120
 acgttcaatt aatgcttgtg tatgcatgta tgtgccaata tgatgtgccg ttgccttggg 180
 ccattcattt cccttttttt tgggggtgaa atagatgtaa agatctcgtc ttgcctgccg 240
 tactcgcgct gtgttgggaa aaatttgggt ttcgttccaa gtttgttaag tttatgcatg 300
 gatttcttgg ctcctt 316

<210> 32911
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-D6

 <400> 32911

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 gaccgtctgc tagtattccc tgctgtttgg tgttatcgta tcagaagacg tctgtagatg 180
 tacaattcct caggccccct gtgttcggct tgaggaagtt tccgttgtac cctggacctg 240
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<210> 32912
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-B5

 <400> 32912

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aagatagaat aatactatag tgctggaaaa aaaaaactat aaaaaaaaca aaacatcaaa 120
 aaaaaaaaaa ataacctcgt ctcttttcaa tcttccactc ttatctctc tctatttcaa 180
 cactgtactc tccaactctt tctgcctaatt tcttatcaat tatcccaatt tccccaaact 240
 taatgatc 248

<210> 32913
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G8

<400> 32913

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 tcgcccataat ctttctaaat acaactgacc tggaaacaga tatgatactc tactaatccc 180
 tatg 184

<210> 32914
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G9

<400> 32914

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 gcacaaccag ctgacgggca gcatcccggc ggggctggtg caggggcagt tccggtcgct 180
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 cggccggccc atcggaagg tggacctgtc gtggaactac ctcgacttcg acctgagcca 360
 gctggtgttc ccgccggaga tgacgtacct ggacctgtcc cacaacctca tccggggcac 420
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<210> 32915
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-033-Q1-K1-H1

<400> 32915

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acctcaagcg ctccggcaag atggagctcc ctgagtgggt tgacattgtg aagactgcga  180
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caaggaagat ctacctaaagg caaggcatcg gtgtgggtgg ctctcagaag atctacggtg  300
gccgccagag gaatggctcc cgcccaccac acttctgcan gagcagtggg gctgttgcac  360
gcaacatcct gcagcagctg cagaatatgg gcatcatcga tgcgatccc aggggtggac  420
gcc                                                    423
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<210> 32916
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-H10

<400> 32916

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ccctgaggat gaggctgaag aagatggtgc taacatcgat ctggactcac aaaggaaagg  240
aaaatgtgtt gttctgaata catacaccag acaaaccata ttacttctctg taattggatt  300
agttgacccc gataagctaa agcctgacga tttagatgca gttaacaaag acagctactt  360
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<210> 32917

<211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H11

 <400> 32917

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 tcgatctgga ctcacaaagg aaaggaaaag gtgttggttct taatacatto accagacaaa 180
 ccatgttcct tcctgtaatt gagtttagttg accccgataa gctaaagcct ggcgatttaa 240
 taggagttaa caaagacagc tacttaatac tagatacatt gacttcagag tatgactcac 300
 gggttaaggc aatggaagta gatgagaaac ctactgagga ttacaatgac attggcggac 360
 ttgagaaa 368

<210> 32918
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H2

 <400> 32918

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 cctcaagcgc tccgagcaga tcgacctccc gtctagctgg cagacatgac tgaaaactcg 180
 ttcagttcaa ggagcttact ccgtatgac ctgactgcta ctacatc 227

<210> 32919
 <211> 135
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-H8

 <400> 32919

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aactctgatt tactt

135

<210> 32920
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A2

<400> 32920

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tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgag 240
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgtc caaggaacgg 300
gatctacttt gatcatgcc a gtcttgaca atcaactaaa atcaccaagt cctctattac 360
tcctgtcag ggatgctgtc acaccattgt cggagtcaga ggccatcgat ctagttaaag 420
acgtgttcgc at 432

<210> 32921
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-A3

<400> 32921

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gctttcaagg tgagggtgag gctctgcaga agagcgtagc tgccagagaa ttgctgtacc 120
aacaccagca taataaaagg atgagctgcc ccgccatggc acagctcctc tccaataccc 180
tgtactacaa gcgattcttc ccatattacg ccttcaatgt gctcgggtggg cttgacagcg 240
aggggaaagg atgcgttttc acctatgatg cagtaggttc ctatgagaga accggttaca 300
gtgctcaggg aacgggatct actttgatca tgccaatcct ggacaatcaa ctaaaatcac 360
caagtccctc attactccct gtcagggatg ctgtcacacc attgtcggag tcagaagcca 420
tcgatct 427

<210> 32922
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-A7

 <400> 32922

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 ctctaacatc actataataa aaataaccta tctcactaca atcttaaaac atctcatata 180
 cacctatfff caactaaaac aattccaaca ctttccacat acttctttac aattatacga 240
 tgattcccca tctatagatc aaaaaacaac ttctctatca acacttatct acctcacacc 300
 aaatatccct tttgtaacat tactaacacc tctatcttcc cactc 345

<210> 32923
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-A8

 <400> 32923

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 gcgtacaaga tcttggttat ggatccgccc tgtatctcca tctctctgcc tgtgctcaag 180
 ctggcgacc ttccgccacca aggtgtcacc ctaccctcg ccatcgatcg tccgcggcag 240
 gcggtgcccg atgcgcgggc cgtctacttc gtccggccca cctcgggaa cgtggaccga 300
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<210> 32924
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-A9

<400> 32924

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tacgatggcc gtcttctccg acctccacac cgtcgacggc ctcaagtccc tcgaggcgtc 180

acctcgacag caaaacctat gtgtctggtg actccattac taaggatgac atttaggtct 240

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ccgtttctgc agctgtagcc tca 323

<210> 32925

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-034-Q1-K1-B10

<400> 32925

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tgggctcctt cttctggacc ttagtgacgc cccctccggc cgccgacgac ccgaactgcg 120

ccgtggtggc cgcgcaactcc aaggccacct acgacgagca gtgggcggcc cacaagagca 180

gcagcaagct gatggtgacg gacttctcgg cgtcctggtg cgggccctgc cgttcatcg 240

agccggcctt caaggagctg gcctcccgtt tcaccgatgc catcttcacg aaggtcgacg 300

tcgacgagct cgccggaggtc gcaaggacat ggaaggtaga ggcgatgcc aagttcgtgc 360

tggtaagga tgggaaggag gtangccgtg tgattggg 398

<210> 32926

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-B11

<400> 32926

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atctttatcc ccaggcggtc gacacctaag cctaccccggt ctacgttcac tccaagcctc 120

aaacctacga cgcccaagcc tacctcacac gacgtacact tattcccaca agtcttctac 180

acctaagccg acccatccta cgtacactcc aaaccctaag ccaccggcta ccaagcctac 240
cacgctcaaa ccgaccccggt caacgtacac cccttctca aacccttcga cactcaagcc 300
gacctacag acgtacact 319

<210> 32927
<211> 445
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-034-Q1-K1-B12
<400> 32927

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aagaatacgt acttggtgggt tgggtgccag tccatgacct actgctgcgc taacttccct 120
gatgacaagg gtgccagggc cattgtcaaa gccttccac acataaaatg cactgtgctg 180
gcccctccca agatcattgc caccaaaccg gccgatggag cgaagataaa ctatgtcgaa 240
ggtgacatgt tcagtttcat tccacctgct caaactgtcg tgctaaagct tgtgctgcac 300
cacctgaccg atgaagagtg cgtcaagctc ctgggtcaat gccggaaggc gattcctcca 360
cggaaggaca gcgggaaagt tataatcggg gatattatga ttgaccactc tgggcttatg 420
ctggaaactc acctgctgat ggaca 445

<210> 32928
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-034-Q1-K1-B3
<400> 32928

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tcttgcttgc ggtctgatcc aatgacacct tccattgggg cgcgaacacg ctatcgagcg 120
tctaagcaat cagctagctg agtcaccatg cgctcacgcg taatcagtct tagacgcgtt 180
cagacataat ccagctcacg atagctatgc gccactggat taaaaccaa tcgcgatgtc 240
cagttgtgtg aatcatcagg tcctctcgta ctaggttgaa ttactatggc ggcccgtgta 300
taa 303

<210> 32929
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-G7

<400> 32929

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ctgtggggttt tggttccact accgagtatt tctgggttct cgttgagcct catcgtgtag 120
gacagtcctg nncgttatct tgttaaccag agtgtgctcg cctcctagcc aaaccttccc 180
cactctgacc aatgtnnctt ccgcctcggg natcggeccg gcgtaggcct ggnngccttg 240
gagccaaaag ggaggggtgtc ggtgccccgc tttccgaacc tcacgganna taagtaaaat 300
aacccgtaa aagtanngtg gtatttcaact tttgcgcccg gagggctccn ncacttatcc 360
tacanncctc tcaaggatcat ttcacanaag tcggacttag agtcnaagct caacaggggt 420
nncttctttc cccgcttgga ttccgccaaa agcccgttcc cctttggctt gtggttttcc 480
gctggat 487

<210> 32930
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E5

<400> 32930

gcagactatt cagtaccacg ccatatgatt atggaccgcc taagtcaaca taggagactg 60
tacaatttag aagggtgaagg ccatggtaaa taacctggct gctcaaacac agtatcacgg 120
ctcgtgaaa ccttacagca cactcccaaa ttgctagcat tgcattctaa cttataactca 180
gctagtcatc atacagcaaa catgcatctt aatcccactt tctatcaaata caatcgctat 240
caccaatatt gtgaatcaac agatcatgta gcactaagct atacatctat gatagcaaag 300
ccattactca gcacaaactt acatttcaca ctacaatcta caccatctt 350

<210> 32931

<211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-E7

 <400> 32931

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 tcacagtctt cggcggcaag gcagtgaacg tgccgtcgtc tctcttcggc gagggccgcg 120
 tgacgatgcg caagacggcg gcgaaggcaa agccggcggc gagctccggc agcccgtggt 180
 acggccccga ccgctgtctc tacctggggc cgtgtctcgg cgcgccctcg agctacctga 240
 caggcgagtt cccggggcag tacggctggg acaccggggg gctgtcggcg gaccgggaga 300
 cgttcgtaaa gaaccggtag ctggaggtca tacactcccg ctggggccatg ctggacgcgt 360
 tgggctgcgt gttcccgag ctgctcgccc gcaacggcgt caagttcggc aaggccgtgt 420
 ggttcaaggc cgtgtcgag atcttcagcg 450

<210> 32932
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-033-Q1-K1-E8

 <400> 32932

gttcacatct aatgtgcact ttaagattgc tctacttctt gtgctttgct gggcgcttgg 60
 tcatgttgct cgattcctaa ggcgtaattt tacacactct tctttataca ggaagtactt 120
 agaggaccct tgcctatggg tagagacaaa caacactaca ctcagcctac tttgttcgaa 180
 tgctgaaatc accctggggg ttctcatgat catctcgctt ttctcgtcga gacgcaatat 240
 aatccagaca tttatgtact ttcacttttt gaagttgatg taccattctc ctgtgacatc 300
 tggttaccac cagagcgtgt gggcaagaat aggcggggct gtaaaccgtg acatntaccg 360
 ctatgcgcca ttccgaacac acctatttcg cagtccagag atgggtgctg 409

<210> 32933
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-F10

<400> 32933

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ggatggcaag actgtccaag aagcccatga aaaactaaag attggtaatg aagaaaaggt 120
tcatgtgtat tatgctcgag gagaggatga tccaaatttc tttcgcagat gctactggct 180
acttgacaaa gagttggagc gcattgtcct cgtgcattat cgtcaaacad ctgaggaaag 240
tgccttacca ccttcgcatg tagaagctga agttgcagaa gtgcctcgga tcaatatgat 300
tcattacacc tcctcaacag attcagcctc tgctcatact gagctatctt cttctgctgc 360
tgctgcacca gaagatatca actcaaattg tgggtgngcg gtttctagtg ggtatacttc 420
tgtatcttct ttgggtgagt ttgcagaaac cgacaatc 458

<210> 32934
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F3

<400> 32934

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gtgagggcca gcgtcgaggg ccaccgccgg aaggtccccg ccaacctctg cgctccgctc 120
aaggtcgcag tatcagatga ggaggacca gatcgatctg cccttaacaa tgcctggaaa 180
tcatggatgg aagaacacat agcggccacg ggcaaggcgc caccaggga cgttgcagga 240
aaccacacct gggttggtgg tgccccccag cgggtccccg acctgcgtct gacgcctgga 300
cgccacgtcc agctgacggt tccgctggag cagctgatag accggctggt gaaggagaac 360
aggatggtgg ccttcatcaa aggatcaagg agcgttccc agtgcgggtt ctgcg 415

<210> 32935
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F5

<400> 32935

cccgcgcgta cgccattact agtaattggc aacaaaattg acaagcctga aggggttcgg 60

aaacaaacct tcacagaaat aatgggccta aagacgatca ctgaccgaga agtggcatgc 120

ttcatgacat catgcaagaa ctcgaccaac attgattctg tcattgactg gctgggtgaag 180

aactcgaaaa agaagaattg aacttaaate tgtactagct attaaagcgc acgccaatct 240

ctctatTTTT gcatgtcgca tagcattgga gctgtaaatt atgcaagagg tattaatcag 300

ggatgtttgtg ttcataatTT tgTTaacctg gtttagcagt atgttgggtg acagcgtctg 360

gtattgtgca cgcccggtgct ctgaggctgc ctctgtgtt ccaactcaatt ttagctgtgc 420

gatttgttca 430

<210> 32936

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F6

<400> 32936

aaagaaaaaa aaaaaaaaaa aaaaaaaaaat ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaatt ttacaaaac aaccatccaa cctaactcac cactactata ctgccaccta 120

actcccatct actcaccctt aatttacaac ctcttaccta tcatttccac cgtcgtctcc 180

catcaaaacc cccttggttac ccattctact ttacccgact cgcttaatca tttccacccc 240

tactcttata tctcttctaa cccttcacc atcctttctc accactacta cactctctat 300

ctccaatcat tatcccc 317

<210> 32937

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F7

<400> 32937

ctgggagacc tgatgcggtt attagtacta tcgggcgttg acggaattca ggggtccggg 60

tttacaaggg ccgacggagg cgcaccggac accgcgcgat gtgcggtgct cttccggccc 120

atggaacata gctccatctg aaccgattcc aggggttgcg gaccgttaat cagaatagat 180
aactcttacc gagggccccg cctgcatctc cggacttcct aacgtcggcg tctgccgcca 240
cgtactgggt agtgaaatct taacccgatt cccttttagga tgacgctcgt gatcgcgcta 300
tctgatgggt ttccccctta ccttaggatc ggcttaccga tgtgcaagtg ccgtgcacat 360
ggaacctttc tctctctcgt cctacaaagt tctcatttga atatttgta ctaccaccaa 420
tatct 425

<210> 32938
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F8

<400> 32938
accacacata cactaacaca ttacaaact catagaaaaa aaaaacaaaa aggcaaacgg 60
aaaaattata aaaaaaaaaa acgcaaaca aaatataaaa ataaaaaaaa aaaaaaaaaa 120
aaaaaaataa aaaaaaacaa tataaaccat tattaattat aatataaccg ttataagac 180
taaacaaact acagtgaagc ctctaactta aacagacaag ataaatataa atgagactaa 240
aatataaaac ttaaaaatta ataaaaacat ctattaccaa aataactaca cacgatacat 300
cacaatatga tgaactcaca ct 322

<210> 32939
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F9

<400> 32939
cggacgcgtg ggcggacgcg tggggtgagg ctgctcgtcc acatttctta cagtcctcgg 60
agatgggcct gccgtatatg cgaggttgca tcaggaagtc tgcgcccgtg cgattttaag 120
tacagcaaac tattagcttc tcttcaaact ttcagatgca catataattt tgagataagg 180
ttgacatctg ttcaagctga gccgtttaag aaaattattt tgaaggcaat cagtcatctc 240
acagaggaag tgcagaatgc cagagctttg gtagatgggc aactgttttc agaagagatg 300

aacataagta cagaggaccc acaccaagtt gattttcttg tgccattcaa gaatgctgtg 360
cctgttgaag aatgcagttt agagggagtt gctgggctca ttcgctttat tggatctgtc 420
agcgccttgg catatttagg ccctaaagaa tctatttcag aa 462

<210> 32940
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G10

<400> 32940

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ggggaccatc tggagctgaa catgtactag tgaattcaaa agcttaatat aagtataact 120
ctatgctagt caactaacat gacaacatgc tattcgtaca gtgcatttgc aactagcata 180
agttattgta aaagtcgctt atatcataag atatgccgca ttacgagcca ttgctaaaag 240
tgatgtacag ctaatatgta tactccatat atcacctatg cagcatcatg tatgtaaacc 300
tcctaaacaa agacatctgc aagatataat tataccgcat ctacataaac ttcgacatga 360

<210> 32941
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G12

<400> 32941

gtgccaagga aatgacgaag ctctctggta tctctgaaat tatccctgag atggggatgg 60
gtgattttga cttcgaaccc tgcggctact ccatgaatgc aatccatggc tctgcgttct 120
ccacgatcca tgtgacgcct gaggatgggt tcagctacgc cagttatgag gttatgggct 180
tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttctgcc 240
cctctgaatt ttctgtcgcc gtgaccatct tcggcgggcg gcgccaagct gggacatggg 300
gaaaggaact tgggtcggag gcttatgact gcaacaacat ggtcgaacat gagctgcctg 360
gaagtgggat cctcatctac cagagcttct gtgctgctga aaacgccgtt gctagctcgc 420
ccaaatccgg tcttcgctgc ttt 443

<210> 32942
 <211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-G2

 <400> 32942

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 aaaaattaaa aaataaaaaa aggtaaaaaa aataaaaaaa tactatacaa ataaaaaaag 120
 cgtcgtcct 129

<210> 32943
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-G3

 <400> 32943

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 gaacattgta aaatttcaaa cgggtctaac aaaccagat accatacaca ttcataccac 120
 ttcatcactc tacaatatca acacttacct ccccttacat tctaccactt tacacaactt 180
 caaaactacc aaaacccaat ccattcccaa cttatttcca actatataac tcatacaacc 240
 ttacactcac caaatttctt agacttccaa accaccaca tttatccaca taaatatatc 300
 ccgaatagca catgacaaac tccctttaac aacactt 337

<210> 32944
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-E4

 <400> 32944

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 gccgcggcct accaccagta cgtgctgagg gccagcgcca ccaagctcgg gtcctaccgg 120
 agcaacgcct aagttccgcc cggacgcgcc aggagctggg caccgttcgg attctgttcc 180

tccacatgac gccctgttct gtttccgtgt ggccaggact ccgcttgctt cctgctgttt 240
tctacttcgg accaaagtgt gacatatctt tgctttctgt atatgtatgt aggaatgcat 300
catgtaagga gaatttggaa tacaattgtg tgagttttta tccgatcaca aa 352

<210> 32945
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C3

<400> 32945

cccacgcgtc cgcacacgcg tccgcccacg cgtccgcgga cgcgtggggg cggggtgggg 60
cggcctgatg ggcgccggcc acgactacta cgagcgcggc aacctggaca tcttcagcgg 120
ccggggcccc tgcattgagc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180
cgcgaccac ggctggtact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240
gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgccctaccg 300
cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gtcgcccggc 360
cggcgaggcc gatgccaccg tgaccgcgct ctaggtacga ccagtagtaa atcatcgaca 420
gaggctagc 429

<210> 32946
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C4

<400> 32946

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caatctgacc accactggac agtgcaactgt actctacagc aacgacagaa aagtgagcag 120
cacacagcag cagctgctgc catgcacgct tggagatctc tcttaccgag cttcgtgctc 180
gccgtgctgg ccgtcaagc cttgctagct gtggccaat ccaagaccgg ccccgaggag 240
catgcgagcc aagcatgtga cgacgtgaac aagccctact gcgtgcccgat gatagaccgg 300
cgctcgctcc cagcgaccgg cggctggcac ggcactctc ccgtgacgcc attgcacgga 360

<210> 32947
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C5

<400> 32947

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 atatacgatt gatcatgaag tagaatgtgg gaaactaatt actctcttca gtgctccgga 120
 ctacccacag tttcaggctt cagaggagcg atacaacaat cgtggagcat atattgtcct 180
 tagtccacct gattttgcta ccctgtttt ccatagcttc ggagctgtaa agcctcgacc 240
 tgcgggcccat ccgttctatg attttgaaca agtgatcgac tcagatgaag aattggattt 300
 aatcgccatg gacagcggca cgtcgagcct gtcatgacga ctcgccatgt accttttgca 360
 cttagggttg tatttattat tatcgctcca attgttgcca tggaagcgtg gcatcaaggt 420
 tttttgctgt cgttgttgta agctaattg 448

<210> 32948
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C7

<400> 32948

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 cggaaccgact atctacaaca a 81

<210> 32949
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C8

<400> 32949

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caagcacacc accactccac agtgcacttc actctacagc aacgacagaa aagtgagcag 120
cagacagcag cagctgctgc catggaggcg tggagatctc tcctcgcgag cttcgtgctc 180
gccgtgctgg ccgcgcaggc cttggtggct gtggctcgagt ccaggaccgg ccccgaggag 240
caggcgagcc aagcaggtga cgacgtgaag aagccggact gcgtgccggg gatagaccgc 300
cgctcgttcc cggggaccgg cggcggccac ggcatacgc ccgtgacgcc atcgcacgga 360
ggctccagct ccccgacgcc gtcccacggc ggctgcgggc ggtacgttcc aacgccgtcg 420
catggcggga cgctgccttt cccgttccac ggcg 454

<210> 32950
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C9

<400> 32950

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aaaaaaaaagcg aaaaagaaaa aaacaaaaaa aagacaaaca caaacaaaaa aaaaacaaaa 120
acaaaaaaac aaaaaaaaaa acaaaaaaaa acaaaacctg cctaccaccc aaaataaccc 180
aaaccccaact ccacagccac caaacttaag aaccctttaa aataaccccc 230

<210> 32951
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D1

<400> 32951

accacgcgtc cgaaaaaaaa aaaaaaaaaat acaaaataaa agaaaaacaa aaaacaaaaa 60
gagaaagggc aaaaataagg aagac 85

<210> 32952
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D11

<400> 32952

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gtttcatggc tcggtettca gttttaccag tgcattgactt tttcctgcta gtaacatttt 120

gttcgtaata agcaatatta cttctattgt cctgcctttt cacaaacaaa tgatactgtg 180

ttctacctca tggttttcttc accgtcatgt tttctgttgt caggtccttg agctagtggg 240

gtcaccaatt gttcctgtga ctgtcatgtt ttctgtgttt gttcgactat tgcagatctg 300

cagtagcttg tagctccatt tggttgtttc atatcacatg actctgttga cacttgccac 360

ttgctagtgt cgtgcaaccg tggttctatt ctgtctggca taatgctttt tatctcattg 420

taaagagagg ggtcaacggg cactggagca aagatt 456

<210> 32953

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D12

<400> 32953

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ataaaaataa aaaaaaggaa agaaaaaaaa aaacaaaaaa aaaaaaaga taataaaaaa 120

aagagcagaa caagcaatat gacctaatat tgatatggct tgtcacaac aaattatact 180

gcgtattacg atatgtgaat gtaaagcaat atgtttactg ttaaagatc ctaattat 238

<210> 32954

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D3

<400> 32954

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ggccgggctg agacaatcac gcgcgccctt gtggccctaa cgcactaacg taggtagccg 120

ctgacggtgt gctgaagcct ctgttactac ctgcaatgct caattagagg cgttcactaa 180

taaaccgact cactgaacct tcgctccact ggcttttaaa ccaagtgcga tgaccacttg 240

tgcgaatcat ccgttgctgt cctactatgc tgaattacta tcgcgcgcgcg gtcataacta 300
 ccgtaaaaact aacatgtcta acgacggcat aaacgcagct tacgttacct attgctccgt 360
 taacacatct acatttactg 380

<210> 32955
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D4

<400> 32955

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 gagcggggcga acataatcgc acatgccgtt gtgatgacaa ctccctaacc cagatctgct 120
 ctgacgttgt gcaacagttc ctagtactgc ctgcaatatt taattcaaga cattcactta 180
 tagtcagact tactataact tctctccact ggctgctaac actaatacaa cgtctaactg 240
 tgtgaatcaa cggctcctgt cctgctatgc tgaattact 279

<210> 32956
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D5

<400> 32956

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 gaagctaata aagaccctct ccgtcgcctt cgccgggaac agtgacatgg ccctccagta 120
 tgtattcgag ggggtgcacca agctgcagaa gcttgaggtc agagatagcc ctttcagtga 180
 cagggggtttg ctctcaggac tggactactt gtacaacatg aggttcttgt ggatgaactc 240
 gtgcaggctg acgatgaggg gctgtagagg tgtagctcag cagatgcaga atctgggtgt 300
 cgaagtaatc aaggaccact ccgaagatga aggggaggct gagaccgttg acaagctgta 360
 cttgtatcgg tctactggcag ggccaaggaa tgatgctccg ccgttcgtca ccctcttgta 420
 gtgctgctgc cgccaccgg 439

<210> 32957

<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D6

<400> 32957

gtagttatct gtaatgtcta taagtaccgt aacggtagtc gttagaactc tcgcttttgt 60
gttatgtcca attctgtcgc cctataaacg aggcaaagtg tgcattgatt aatataaacg 120
gaggcaatgt agaaacaata gtagcaccta atataaacag aggcattttt acaactttgt 180
tctgaacgtg aacgtcttga atccggcaca ggtttttaggc attcctttgc gtgctacact 240
ggcatgcaac agcaacatgc tgtacaggtg gtgcactcca ttagttctta tggcaacgac 300
aatcaatttt tttttaaatg acaattattc ttggatagta gatattctgt atacatttgt 360
ttagtttggt gccttttctt ttctcctaaa cattttaatt aatcactaat tacttagtta 420
ttgcaagcac ttcaaaaatg aagggccaaa atttattt 458

<210> 32958
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-D7

<400> 32958

cccgcgcgtt cgaaaacgac caccgaactt taagcactga actgtccaag cgggggactg 60
tcagatagca aggagcgtgt cgcgctgctc ctggcggaac tctctgatgc tagtctgctg 120
tactagccc cggtcggcgc cgctacgaca tgcgcaccta cgcaactgac cccgtacgca 180
cccgccatcg ttctgaacac tgcgctcacc gcacaacact acgccattct caatgaacac 240
ccgcagacct gctattacca gtacaagatg aaccccatca tgcaacgcta catctactgc 300
cccaacggct a 311

<210> 32959
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E1

<400> 32959

cgccgcccgtc caaccctact aggggcaaga agcgcgccgc cgccgcccag gagggaggagg 60

cagacagccg cgacgcccag gcagcacccc cggcggccaa ggcgcccgtg gtcggatggc 120

caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180

gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240

cgteccgagc cgctcaaac gccaccgcca gcgcgggggc cggctcattc gtcaagggtga 300

gcatggacgg cgcctcgtag ctgcggaagc tcgacctgag gatgtacaag gngtaccggg 360

agctccggga ggccctggag gccatgttcg tcttctttcg cagcgctaac gccacaaca 420

acctgtccga gttcgccgtc acctaccagg acaagg 456

<210> 32960

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E12

<400> 32960

cagagtagaa gttttctctc agaacctcta gtatctgttt tcaagtttag ctctgaatgg 60

atgataagca tgtcgttcag tttgttctta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaat atgtgtaaca taaataaaaa caaatgaaac aaaaataaaa aaaaatcaag 240

actggggggtt ctcttttaggg tacccaact 269

<210> 32961

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-E2

<400> 32961

ggaggagggc tttagcgatg gtcctgttca tggctggcgc cgcgctgctc gccggggctg 60

cggcgcccgg cgcgcagcag ggcgtgtgga gcatcatcac ccggcccatg ttccagagca 120

tgctgagcca ccgcggcgac agcgggtgcc agggcgctt ctacacctac gacgccttca 180
 tcgaggccgc cagcaagttc cccggcttcg gcaccaccgg cgacgagcag acgcgcagggc 240
 gggagctcgc cgccttcttc ggccagacgt cccacgaaac caccggtgga tgggcgactg 300
 ctccggatgg accgtttgcc tgnngatact gccgggtgaa ggaacagaaa cagacggacc 360
 caccctacta tggacgagga ccctacagc taactcataa gtacaacta 409

<210> 32962
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H6

<400> 32962
 aaaacacata acaccaaaaa caaacattt acatttaaaa aaacacggtc cccacccag 60
 ggccagggtt atttctaacg ggggcatgcg cctacaatta ctctactata ctaccatcta 120
 caattcaatc atttcaccgt tatcacaaca tatcttacca ccttaaaaat aatgtatcca 180
 tataacttaa tcccata 197

<210> 32963
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H9

<400> 32963
 cagaagcgaa acgggcacac gcaactgatc aaggcaacca atattcaccg tcggcaatgg 60
 gcgacctgat ccctgggctg ccgatgaag tggccaggga gtgcctcgtc cgggtgggct 120
 tcgaccagct gccggtggtg cgccatatct cgcgccagtg gaagtcggag gtggagtcgc 180
 cggactacca ccgccagcgc cggacgtagg ggcttgccgc cccggtgctc gcgcttgctc 240
 atgcgcagcc tacagcgccg tcggatgacg actactacat cggcctcgta tacgagcgct 300
 cgacggcggc caac 314

<210> 32964
 <211> 456
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A1

<400> 32964

cggacgcgtg ggcttttttt ttgacacgag gaactcatca tgaatccact aattgctgcg 60
gcttccgtta ttgctgctgg attggccgta gggcttgctt ctattggggc cggagttggg 120
caaggtactg ctgcaggaca agctgtagaa ggtattgcca gacagccaga agcagaaggt 180
aaaataagag gtactttatt gcttagtcta gcttttatgg aagctttaac aatttatgga 240
ctggttgctg cactagcgct tttatttgcg aacccttttg tttaatccta aaaaagaaaa 300
tgagtccttt agattagata cttttttctt tntttagtag attggcattt gcttatgtaa 360
ttctaagtat atcaatactt tactttactc ctatttatta tattatttct ttgttatatt 420
attccggaaa ttttgtattt atcgggacag acaata 456

<210> 32965

<211> 540

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-033-Q1-K1-A10

<400> 32965

tcgcacgcgc gtccgtctgg gaagggagcc ttcgagtgcg gctccgctcg cggacgcgta 60
cggcgcgggc tgggcgtgag tccaataggc actgggctcc gttggtggcg ccgaaccgcc 120
tctaacttgt gggtagctgg gccgggccgt gcgaggccag aggcntgccg gttggctaga 180
ctttgggnat tctgnnactg tagaggcggt acaaagtcac annatccggc accacagagt 240
agcttttccg gcccaacttg catttttcaa ctcaagtcgc cgatgacca tatgtgtgtg 300
agatcaatcg gtatccttct cgtactttag gttgaagtta cctaaatcgc ggtcgttggt 360
caattcagta ngnggtaaa acctaactnn ctgtctcaac gacgagtctt taatcctcag 420
cttcaactgt tccctaaatt ggtgggtgaa accaanntcc aacacttttg gtgannattc 480
tgcttttcac aatgatacgt gaagaagccc cgtacatcga agggaaatca aaaaagcaac 540

<210> 32966

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A12

 <400> 32966

 aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 ggagaaaaaa aaaaaaacaa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaca aaaaaaaaaa aaaaaaaagc ggcgccccac aacagagacc caggcaaccc 180
 acccccggca cacaaaccaa aacccccacc aacgcacccc caaaaaaaaa accacgaccc 240
 caacaaaaaa acccgaggac cgagaaaaaa ccaaagcaac ccccaaaaaa aacgcaagaa 300
 cggaaccccc ccagccccag cgcagaaaac acaacaaaag cccaaaacac gcaccgcgca 360
 acaaaaacac aaaccacaga aggaaaaagg ggccccacc 399

<210> 32967
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A2

 <400> 32967

 cccacgcgtc cgcccacgcg tccgcccacg cgtccgatcg tttggaaatg gtttatctac 60
 ggcttgtgtt gtcaacattg gggctcaagt tacacaagta gtttgtgttg aggatggagt 120
 agctttgccc cacacagctc tggcgcttcc atatggtgga gatgacatct ccagatgctt 180
 gctttgggtt caacgtcgcc atggcacgtg gccaaacttc caaactgac caatgagcaa 240
 tcctatagat atgctaattg tcaacaaaat caaagagtca tatagccaaa taaagactgg 300
 gagcattgat gcagctgtcc ttgttcattc atatgataat gaaaggtctg gtggacatca 360
 gaagacaaga ctatcagcta ttaatgttcc tcccta 395

<210> 32968
 <211> 103
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-033-Q1-K1-A3

<400> 32968
aattctcggga attgaccgac tgcgaccac gcgtgcgtcc agccacgcgt ccgcccacgc 60
gtccgcccac gcgtccgccc acgcgtccgg ttctagatcg cga 103

<210> 32969
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-A4

<400> 32969
cgaccacgc atccgcccac gcgtccgccc actcgtccgc ccactcttcc gttcactcgt 60
acaccactc tttcggatct ttgataactt 90

<210> 32970
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-A7

<400> 32970
gcgtcgccac gcgtcgacag cgcactctac attgcttctg agttgccgcg ctacacgcca 60
ctactaaagg ccagccgact atggcgatc agcctctcta cctacgcctg tactgagtgc 120
gccgtgagct tgcatcccac ggcgatctac cgctggcggg gctgcctcag cgctgagctg 180
gcacggcgct gtctctcccc tgcctaagct gccgttcctc cgccgactgc tgcggctcct 240
cgccgcgtcg ggcgtgtaca ccgtcgacaa gcagagcacg gaggaggagc ggtaccgcat 300
cagccncgtg tctacctgc tgggtggacgg catccctcac gaggaccaca tgaaccacac 360
cgatctgggtg ctcacctgca cctcgacgcg ctacatc 397

<210> 32971
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-B1

<400> 32971

cccacgcgtc cggcgagagg aagggaggag gtgagccacc ggaagcggag acgtgagtag 60

gcgaccaacc ccgtcgggtcc ggcgactccg gctgcggcgc ggcgtgctag atcgctaccg 120

accatggtgg tggaggagat cgccgagggg gtgaaaaacc tcaccgttac cggagatgcg 180

gcggcttcag gcggagaggg gcagaggagg ggcggcggcg gcagcagcaa ccgcatccag 240

gtgtccaaca ccaagaagcc cctcttcttc tacgtcaacc tcgccaagag gtatatgcaa 300

cagcacgacg atgtagagct atccgctctt gggatggcca tagcaacagt tgtgaccgtg 360

gcaganattc tgaagaacaa tggatttgcc gttgaaaaga aaattaggac ctctactggg 420

gaaataaacg acgaatc 437

<210> 32972

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B10

<400> 32972

cccacgcgtc cggctatatc tatccaattt attcactgat atgaggagca cctgggggctg 60

gtatagacaa tgtacctgat tagctacatg acaaatatc ctctgatcag cctattttatc 120

aaaagatagc gaacgggtctg cgtactttga tacttgggtct tattctgtgt gcttaccaca 180

gccgaacatt ttccatgtta aatggatatg gagctcccct gcacatctat cactcatcta 240

taacatcatg atgacactgg acccgagact attctgcgag aggcaagcta atggcatcgc 300

tatccatcat cgatcttcat accctcttat atcagtgaag tccggcggat aaatgatggc 360

ttccacgggt tacttccatt taccttcaac gagacactga ctgggaccac tgcaactccg 420

tcctacttca ataacaagaa caa 443

<210> 32973

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B2

<400> 32973

gatcagcctt tctacccctt ggcctacgt tgaacaggta cctttaggta cccacacaat 60
gcctaaacta attttttgata ttgataagag tgcttattat aaagcaattc ttgcaatttt 120
tttaagaatt gatttttgca tttttagggtg tcaaaaataaa gaaaacccat cctagtggat 180
ccgtgtggta aggaaaaatg ggtaatctat tccttaac 218

<210> 32974
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B3

<400> 32974

gcaaccggtc caacactttc acgctcagct tcagcaatgg ctgcctccac catggcgagg 60
tcctccacgg cgatggccgg ccccccatc aaggtgggtt ccttcggcga gggccgcac 120
accatgcgca agaccgtggg caagcccaag gtggcggcgt ccggcagccc ctggtacggc 180
cccgaccgcg tcaagtacct cggccccttc tccggcgagc ccccgagcta cctcaccggc 240
gagttccccg gcgactactg ctgggacacc gccgggctgt ccgtcgaccc cgagacattc 300
gccagaacc gcgagctgga ggtgatccac tcccgtggg ccatgctcgg cgcgctcggc 360
tgcgctcttc ccgagctgct ctcccgcaac ggcgtcaagt tcggcgagggc cgtctggttc 420
aaggccggct ccagatctt cagcgagggc gggctggac 459

<210> 32975
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B6

<400> 32975

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gctaacattc taaaaataa aaaaataaat aatcaaacat tatttatatt cccttcttac 120
tttctcttcc tttctacgtt ttcatTTTTt ttttcttttc cttacttttt cttcactttc 180
cttttttttc cctatTTTTt ttttctatta cccatctttt acccatctt atttgcttta 240
caccacatcc tcctttcttt aattcccttt ctatccatca gttttttacc attttccttt 300

atcaccatTTT ccccttctg aatcgtcttT tctaccctt

339

<210> 32976
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B7

<400> 32976

cccacgcgtc cgcccacgcg tccgatcttc tccaaccgcg gcaagctcta cgagttctgc 60
gagcggacag agcattacca aaacacttga taggtatgaa aaaaacagtt atggaggacc 120
agatactgct gtacagaaca aggagaacga gttagtccag agcagtcgta atgagtacct 180
caagctgaaa gcgaggggtgg ataatttaca gaggactcag aggaatttgc ttggtgaaga 240
tctggggtca cttggtgtca aagagcttga gcagcttgag aagcaacttg attcatcctt 300
aaggcacata agatccacat ggacacaaca tatgcttgat cagctcactg atcttcagag 360
gagggagcaa atgctgtgtg aagcaaataa gttgcctaga a 401

<210> 32977
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-B8

<400> 32977

cccacgcgtc cgcccactcg ttttatcttt tccaacctcg gcaagctata ctgcttattg 60
atccgtttta gcattaccaa aacacttgat aggtatgaaa aaaacagata ttgacgacca 120
catactactg cacagatcaa ggagaactag ttaatccaca ccagtcttaa tgaatacttt 180
aagctgaaat caaagcttac aaaattacat acgactcata tgaatatgct tgatgaaaat 240
ctatattcac tttctgtaaa ataacttaag caccttgaga agcagcataa ttcacctta 300
atgcacataa tatccacata gtcacaacat atccttgatc agctaactga tcttc 355

<210> 32978
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-C11

<400> 32978

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gggacaaccg cgacgcggag gcagcacccc cggcggccaa ggcgccgtg gtcggatggc 120
caccggtgag gtcgtaccgg aagagctgct tccagcaggc aaagcagcag gccgtcagca 180
gcagcagcag caaggcggcc gacaaagagg atgctgcggc gccggcgccc agctgcacgg 240
cgtccgcagc cgctctaaac gccaccgcca gcgcgggggc cggctcattc gtcaagggtga 300
gcatggacgg cgcctcgtag ctgcggaagc tcgacctgag gatgtacaag ggggtaccggg 360
agctccggga ggccctggag gccatgttcg tctcctccgg cagcgctaac gccaacaaca 420
acctgtccga gttcgccgtc acctaccagg acaagga 457

<210> 32979

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E2

<400> 32979

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gtcgcttgcc accgagccct tcgtcgttcc tggccggcat tgggcacctg caccttttga 120
agaaaccggt tcaccgaacg ctgtctgctc ttgcggcgca acacgggcct gttcttctct 180
ttcgattcgg cttccgcgcg gttgtccaca ttgccgacct tgcgctcgcc gcggagtgtt 240
tgagcaccca cgacgttacc tttgccaacc gcccggggct ttccttcgcc cgctatctct 300
tcaacgacta caccacgttg ggctcgtcaa gctaccggcc caactggcgc aacacttgcc 360
gcatatccac cgtcgacatc ttttcctctc atagcgtgct ctgctccgcg gatg 414

<210> 32980

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E3

<400> 32980

cttttatttt gtttaccaaa cttttttatt tttattgaaa ctggatcaac acatattttt 60
tctttttact acaaaaatta aaagtaaatac ttccttttta aatttgctcc acccgacaca 120
cttttttt 128

<210> 32981
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-E4

<400> 32981

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ttgggaaaag gctttcgctt acgctgtgct atctccaggt ctctactgtc atgttcacca 120
tccttgtctt ctctctcata atcccttcta tccctttcca ccttcggttc tttttcttta 180
tcaagacgtc ttctctggcg atcatgtcc acatcaggac ggtcaacact aaagtcacgg 240
tcagcatgtg atagacaagc tctctccctc ttctcattgt gaatggctct atttgcaggt 300
ggcaaatagc tctgtctc cgccttaacc aaaccacccc ttgaagatgc cactgcttgt 360
ggggccactg aagtatcatg cangaaatgc tggaattctt 400

<210> 32982
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-E5

<400> 32982

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gtttagtcac cggtgttggc agcatgaaaa gcggggagcg tgcattgttg catgttggtt 120
gggagctagg ctatggcaaa gaaggaagtt tttcattccc aaatgtccct ccaatggcag 180
accttgttta tgaagttgaa ctcatgggat ttgatgatgt taaagagggt aaatcccgaa 240
gtgacatgac agttgaagag aggattgcag ctgcagacag gagaaagatt gagggcaatg 300
catatttcaa agaaaagaag ctggaggagg ccatgcagca atatgaaatg gcgattgcat 360
acatgggaga tgatttcatg tttcaattat ttggaaagta cagagacatg gcct 414

<210> 32983
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-E6

 <400> 32983

 acgcccacgc gtccgcccac gcgtccaggt ttgggttata cttgaggatg atgcctaact 60
 ggaaatgcag gccttcttga cccttgcaca tgatgagggc aattcacctg ctgcagattt 120
 tgtgttaccg aaagctgaat gctttaacaa cgaacaagcg atctcttatg ctctctgctt 180
 ttctctgcat ccctgctatc ttaggagatt acccttgcgt aagcacgaga tccataagca 240
 cctacgacgt gactttttacc aacagatcac gaattgtttc agggcggttca ttatcacact 300
 actccattac aatataccta tcaatctact caccacac 338

<210> 32984
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F11

 <400> 32984

 aaaactaaaa aaaaaaata atgaattcac aaaaataaaa ttcaaaaaaa taaaacaggg 60
 ggagttaaaa ctaaaaa 77

<210> 32985
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F12

 <400> 32985

 aaaaaaaaaa aaaaaaata aaaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aataataaaa aaa 143

<210> 32986
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-F3

 <400> 32986

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 gcgagtgcga gctcatccac ggccgctggg ccatgctcgc caccctcggc gccctctccg 120
 tcgagtggct caccggcgct acctggcagg acgccggcaa ggtggagctg gtggacgggt 180
 cctnctacct gggccagccg ctgccgttct ccatctcgac gctcatctgg atcgaggtgc 240
 tcgtgatcgg ctacatcgag ttccagcgca acgccgagct 280

<210> 32987
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F5

 <400> 32987

 gccacgcgtc cgctttcttc ttctttctct tctttacaca agcgtgctcc ttcttctcgt 60
 gtgcgtagta tctagctcac aacaggggaa gaccagaaga aacaaggccg ccgccgccgc 120
 tgcagcaaca acatacacct tttgccctgg cccattggc atccttgacc ac 172

<210> 32988
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-F7

 <400> 32988

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 gcctcggcaa ccctacagtc gaggtcgacg tgttttctc agatggaacc tttgcaaggg 120
 cagctgttcc cagtggagca tcaactggtg tatatgaagc tctggagttg agggatggtg 180
 gctctgacta tttggggaag ggtgtctcca atgctgtgaa caatgtgaat tctgttattg 240

gacctgctct gattggcaag ggctcttcag cacagactga taattgatac cttatgggtt 300
aacaactttg atggggactca aatatattgg ggattgtgca agcaaaaact t 351

<210> 32989
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-F9

<400> 32989

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acgcccgcc caccgacgcc gactacgcga ttctgtctcc cagcagcttt ggcgctggtg 180
gtcgaccgtg gaattgctgc gactccgcta tcaaggactc ctctctgccg gcgtggcgct 240
gcaacgacgt ggtggacaag tgctccgtcg actgccatga ctgctaggcg tttactgccg 300
gcgacggctt cgtctgcggt gactttattc taagcctgac cgagcccccg gtcggcacac 360

<210> 32990
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G1

<400> 32990

cccacgcgtc cggagaaggt gacagggcca tttctagatg ctttaggaga agactactta 60
gtttggttcg agtgaacggc attcttgcc ctgcagagct gcatgaacca ttcattgccg 120
ccaaatgcta aagcatttaa gagagactag gacaaggatg gccatgcagt gataattgcc 180
cttaagccca tcagcaagga cgaagagatt accatcgcc acet 224

<210> 32991
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G10

<400> 32991

aaaaaaaaa ataaaaaata aaaatgataa aaaaaaaaaa aaaaaaaaaa aaaaaagagg 60
ggataaaaaag gaaagaa 77

<210> 32992
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G11

<400> 32992

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agtggagggg gaggcaggcg cccaggctgt caatggggac ggggagcgcg acggcggcgc 120
aggccctggc gctcgccgcc ttgctgctcg cctgctctgg cgtcgcagtc gtcacggcgc 180
aggacattga gcggatccaa ggaagtgccg gcgacgtgct ggatgacgac cccgttgggc 240
ggctcaaggt gtacgtgtac gagctgcctg ttaagttcgt catgaacgtg gtggcgaagg 300
actcgcggtg cctgatccac atgttcgcca cggagatctt catgcacc 348

<210> 32993
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G12

<400> 32993

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gccgtcgcca caccacaacc cgtcgaagcg aagcaagcaa tggccggagt cggatcgaag 120
gcctcgcgcg ttgcgcgcgt tctggcggac gtctccctct cgggtggccgt cgcggccgag 180
gcgcccggcg ccagccccgt ctacgatgtc gtcgcgttgt ctgttgtctt ctctgggtc 240
ctcggcgcct tcgtcgcgt cttcctcttc gtcgacgttc gccactgatg ctttgtggcc 300
tcgtgcctgc aggctaccta gcagta 326

<210> 32994
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G3

<400> 32994

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gactgccttg tgtaaacttc gctggagacc tgtggtttgg aactatgctc acggctacga 120
tgggatcaga ttattttgag tattgatgac acgagtatat gtcgattggt tt 172

<210> 32995

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-E10

<400> 32995

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ttcggtttcg tgggtgagcg gatcgagatg gcggcgctctg atgttgagta ccgctgcttc 120
gtcggcggcc tcgcctgggc cacggacgac cactccctcc acaacgcctt cagcacctac 180
ggcgaggttc tcgagtccea gatcctctc tatcgtgtga ctcatagggt ccgcggcttc 240
ggcttcgtca ctttctccac ggaggaggct atgcgtaact ccatcgangg catgaacggc 300
aaggagctgg acggccgtaa catcaccgtc aacgaggg 338

<210> 32996

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-G6

<400> 32996

acggtctggg ccgaaccaag ggctgccgtt ccgtttcaaa tacctgcgac ctttctccag 60
ggaaccgtgg aactaccaca ccggccaggt cccaactac tacggctgac acacctatag 120
gctctacata ttcccctaga catttaccaa caacctctat ctgaaagata tccactcata 180
cttggcc 187

<210> 32997

<211> 211

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-G9

 <400> 32997

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 tatttggtgt ttatgtgagg ctgcatgcta atgattaact ctggtcttta tgtccatgtg 120
 agaaggctaa taaattatct ctttattttg gttcgtgaaa aaggatgttt gaccctcgag 180
 acgagtaact acatatgggc tgatacttac t 211

<210> 32998
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-H1

 <400> 32998

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 gtgtggtaat cttgcaaggg atcgctacaa gagcattgag aaacgtggaa tacttgcacc 120
 aagcaagaga ataagcaaac gtcggtagag aaggcaagtt ccaatctgag ggatgatatg 180
 gtgaagctgg attgaagagg atttactaga ttgagaaga ccctttggat gttcactgtc 240
 ggaatgttcc cctctttcag tgtcttgcca aagtaccta cgattgggtc tgtccgtgtg 300
 gggcttcgtt gtgacgctag tttcataaga tcntggatgc actcatatac cctggctggg 360
 cttgatgcat gaaggcgtat cgcttggt 388

<210> 32999
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-032-Q1-K1-H11

 <400> 32999

 cccacgcgtc cgcccactcg tccgcccacg cgcccgccca cgcgtccgga gcgatggggg 60
 tcccgatcag cagctgatcg ctcaactcttg cagctcgatc attctttagc tgctctagct 120

ctagcctcta gccctagcta gtagctagcc actcggtcgt gtagtcatca gccttctgat 180
 cgtcaccat gccactgcc gaggtccaga cccctgccgt cgtggcgacc gaggaagcgc 240
 cgggtggtgga taccocggct cggcccgctg tctgtccctg ggagggtgcc cccttcgccg 300
 aggccaaagt ggaggagcca gcttgcccgg cggagaccga gccagc 346

<210> 33000
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H4

<400> 33000

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 ttgtgccggc tcacaccaag ggctggaaac gagccgagct cagtttggct tgggtgcggta 120
 gcttgatcgc gctcggcttg tctactcaac aagctacaaa aggaggctcg gcttggttatc 180
 agctcacctt gtctactgaa caagctataa aaggaggctc ggctcgttat tagctcacga 240
 ggaggctcgc ctcgttatta gctcacgagc caccttgtct actgaacaag ctataaaagg 300
 aggctcggct cgttattagc tcacgagcca aacaaactcg cgagctgcaa ttgataaat 360
 aatattatat tatataatga attaatagtt tatcgatgt 399

<210> 33001
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H7

<400> 33001

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 caaattcact aatatgggtg cacatcgaga taccactgac tcaactctata aacattatca 120
 atgatcaaat taatctgctt attctacatc gagcatatca cttatcacgg attatctaag 180
 atgtaccgaa cgatagcct tgccaacaat acatcagcct gaatat 226

<210> 33002
 <211> 264
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H8

<400> 33002

gaagaggaag ccggagcctg tttaatcgct gaagtcttca ttgtgcgtgt gtagctgaat 60

tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggtc tattcatagg 120

cattcatgaa aattttaccg agagaaaaga ttggaaggga ggtttaattc tggcccttag 180

gtgtggaaac tttggatgat gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240

atagcacggt atttgtgaat attt 264

<210> 33003

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A11

<400> 33003

caaaaattat caagactggt tttgcagcaa ttcactctgat atactttttc actggtggtc 60

ctgatgaggt aaaatggttg cagatcagac gccagactaa agctcctcaa gctgctggtg 120

caattcacac tgattttgaa aggggtatca tatgcgctga ggtaatgaag tttgaagatc 180

tgaaagaact gggcagtga tctgctgtaa aggctgcttt aaaatacatg caggagggga 240

aaacctatgt ggtccaggac tgggacatca tcttttttca aattcaacgt gtctggtggc 300

gggaagaagt gaagaatgta tgaagatggt agcatcacag tgttttacgt cttaccctca 360

atttctcatt caac 374

<210> 33004

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A12

<400> 33004

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tcggcgagga gggcagctat ctagcttagt acgtgtactg gtccaacggc cgtgagacct 120

agaaccccat cgtctacaac aagcatttct ctttgaagaa cttattgaag ctgtgctggca 180
ggc 183

<210> 33005
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A2

<400> 33005

aaaaaaaa aataaaaaaa aaaaaaaaaa aattttttta ttataaaaaa aataaaaaaa 60
aaaaaagaaa aattttaaaaa atataaaaaa aaaaaaccaa aaataaaaaa aaaataaaca 120
ttttaaaaaa ttccattata aa 142

<210> 33006
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A4

<400> 33006

gaggatatag agaggaagaa cagctcgtcc gttactcatg aagagcagcc cacacctggt 60
gctgagcctg tgccctccagg ccgctctggt catgggcgtc ttccgccgtt tggctaaaga 120
aaatgccctg gttgagagca aggccatcga catcaacccg gggcagctca agtgctgcac 180
caactgcaac ttctccttct cggggctcta cacctgcgac gacgtcaaaa aggactgcga 240
ccccgtctgc aagaagtgcg tcgttggcct gcaagccttc taattcggcc accaccaggt 300
taagtgcacc gacacctttc ttggcatttg ccggcccaag tgctagatca gagaggaaga 360
accgcgctt ctgctagctg ctatagcttc gttctttcg 399

<210> 33007
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-A7

<400> 33007

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 ggatgtgctc cctcctaggt ttgctccttt aggaccttgt attattgagt gtttaacttgg 120
 aatttcgtct gattgggtccc tagtagttag ttaggtgtgg aagcaacatt tgctatagcc 180
 gtagtgtagt gagtaccatg tgttcgttgt ggtcaggtcc atgggtgcatt ggtgctgagc 240
 cttaagcgga atgaacccta tgctcgctgt gaggcccatg gcatcgtgtt gtcgggtggg 300
 gttgtagctt gttgatgccc tattttatat tattatacgc gattgaagc 349

<210> 33008
 <211> 472
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-032-Q1-K1-B7

<400> 33008
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 agcgacggcg tggaggtgaa gagctacttc aacaagtccg ccgggagggc ggcgagcaac 120
 aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtag 180
 ggcaggaaga agcacgcca gagcgagggc gcggcgggcg cgggcgccac ggacaagcag 240
 cggttcaaga cgctgccggc gtcggagggc ctgccgggg gccaggccat cggggggtac 300
 atcttcgtct gcaacaacga caccatggac gagaacctca ggagggagct gttcgggctg 360
 ccgtccaggt acagggactc tgtgcngtgc tatccgccgg gactgcccct cttcctctac 420
 aactactcca cgcaccagct ccacggcatc ttcgaggccg cgagcttcgg cg 472

<210> 33009
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-B8

<400> 33009
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 ttgaagctgc ttgactccca cctagtgcct tcttctactg ctgctgaatc aaaggtcttc 120
 tacctcaaga tgaaggtgga ctatcacagg tatcttgccg aatttaagac tgggtgctgag 180

aggaaggaat ctgctgagag cacaatggtg gcctataagg ctgctcagga cattgctctg 240
gctgagctgg cacctaccca tccgataagg ctgggacttg ctcttaattt ttcagtgttc 300
tattatgaga ttctg 315

<210> 33010
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C10

<400> 33010

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gtcgactaca aagggaccgg ttctgagatc acccccttcg gtgctggtcg tcgacgctgc 120
cctgcaatca tggttgccac ttctactcta gatattgcat tggcaaacct tctctaccac 180
ttcgactgtg ctcttcggga tggaatgagc ccatatatgg ttgataagtc tgatcaatac 240
gggatgggtg tcaccaaaaa gttagaccat gatattatta ccatcagata tgtatactgt 300
actatggcat acgtattggt tgtggttaaa 330

<210> 33011
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-C2

<400> 33011

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gcagctgac gcgcactctt gcaactcgat catgcgttag ctgctctagc tctagcctct 120
agccctagct agtagctagc cactcggtcg ttagtcatc agccttctga tcgtcaccca 180
tgccactgc cgaggccag accccgaccg tcgtggcgac cgaggaagcg ccggtggtgg 240
agaccccggc tccgtccgcc gtcgtgccc aggaggctgc ccccg 285

<210> 33012
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-C7

<400> 33012

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tcaggagacg aaacggtcga catggctcgc acgcaatctg ccgtagcggg cgccgtgggtg 120
gccgcgggtg tgctgctggc agcggcggcg acgacctctg aggcgcgcat cacctgcggg 180
caggtgagct ccgccatcgc gccctgcctc tcctacgccg gcggcacggg gtccggcccc 240
tgcggtact gctgtagcgg cgttaggaac ctcaagagcg ccgtcagcac cgtcgacgac 300
aggcgcgccc actgcaactg cctcaagaac gccgncaggg gcg 343

<210> 33013
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D11

<400> 33013

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ccgccggaga tcgagaccgt agctaggggt tgaggcgccg ggctgcgggtg gacgagatgt 120
cgacgccggc gaggaagcgg ctgatgcggg acttcaggcg cctgcagcat gaccgcgccg 180
ccgggatcag cggcgcgccg cacgacatca acatcatgct ctggaacgcc gtcatatctg 240
ggccggatga tacgcggtgg gacgggtggc cgttcaaagt taccttgcta gttacagaag 300
attacccaaa caagccacca atctgtcgat ttgtctctag gatgtttc 348

<210> 33014
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-D2

<400> 33014

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ttggagagag aagagaccga tcaagtcatt ggtgacaggc aggccaattc tgcttgact 120

tgaggatatt gatggcagcc cttctttttt agaaaaagcc ctgcgctttc ttgagaaaca 180
 tggaataaag gtggaaggaa ttttgaggca gtctgcagat gtggaagaag ttgacaggag 240
 gttgcaagaa tatgaacaag gaaagactga gttttcagca gatgaagacg ctcatgttgt 300
 cggtgactgt gtaaagcatg ttctccgaga gctgccatca tcccccgtagc ctgcttcttg 360
 ctgtacagca ttattggaag cgtttcgcct ggagactaan gatgctagga taaatgctat 420
 gcgttcagct atatctgaga catttntctga gcccaaactg aggttgctgc agagaatttt 480
 aaaaatgat 489

<210> 33015
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D3

<400> 33015

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 aagaccaccg tcgccagggt cggcgccgc acggcgacgt gcagggccag cagcggcggt 180
 ggcggtggcc gggggggcga aaatgatggc ctcttttggc tgccccggcg ggacgtgatg 240
 ctcaacggcc tgtccagtgt cgccgccggg ctgcctggt acccgggcgt cgcgtccggc 300
 gcggatgcgg tgtgca 316

<210> 33016
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H6

<400> 33016

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 aattctttca tttctccatc ctgagttctt tacctctctt ctatctatag ttctattcat 120
 aggccttcat gaaaatttta cccggagaaa agattggaag ggaggtttaa ttctggccct 180
 taggtgtgga agctttggtg atggtaggtc gatatcttac cagggtggtaa ttacatgcca 240

ttattgcacg taatttgtga atattt

266

<210> 33017
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D8

<400> 33017

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cagggcccca gggttcctac tctcgtggca tcggcagcac tgaggggaag atgtcgtcgg 120
tgttcagcgg cgatgagacc gtcccttct tccggtttcct tggcgccgtc gtcgctctcg 180
ttttctcatg catggggggcg gcgtacggga ctgccaagag tggcgtctgc gtggcgtcca 240
tggtgtcat gctcccagag ctctcatga agtccatcgt gcccggtggc atggctggcg 300
tgctgggtat ctactgctc atcatcgccg tcatcatgag cactgtgac aacctcaagg 360
ccaagccata ctacctctt gacggctatg cctacctgtc ga 402

<210> 33018
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D9

<400> 33018

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gagatttttg acaaggctag gcagtctgct ccatgtgtcc tcttttttga tgagctcgac 120
tccattgcta ctacagagagg aagcagtgtt ggttacgccg gtagtactgc tgatagggtg 180
ttgaaccagc tgcttactga gatggatggc atgaatgcta atatgacggt ttttattatc 240
ggtgcaacta acagaccgga catcattgat ccagccttgc ttaggcctgt tcgtattgat 300
cagcttatct atattcctct ttccgatgag caatccaagc ttcagatct 349

<210> 33019
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F12

<400> 33019

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caagggcttc aaggacctgc ctcccgggat gccttccgtg ctcttcgtga ctgcattaac 120
ttgcttttgt gggttccggt cattctttta cacaacgact ggattggccc gga 173

<210> 33020

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F2

<400> 33020

ctcggactga tgattggttt tgggtgtgga gaatttgatg gcaactcctc ttttatttgt 60
gggaagatga gatgtagttt attggtgaca acaaaaaggc caaggttata aaatccatct 120
gaaaaggacc aggcaagact agaggggatg aataggtctg ttataaaatt tactcaaagc 180
aatggtagt gataggtgag ccagttctag gaaaaaatgt actagcgggtg caacggttct 240
aggcgcaact atgctactat cacaaaatag agcacctcat gaacataatt caaatctac 300
aacaagaaaa gtatattgag taaattacta gtgttcccag tagtgtatag agactatttc 360
atcacttttc ctaagatgga cgctctagca caag 394

<210> 33021

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F3

<400> 33021

ctcgatctaa cgctgcttc ctccatcact cttatactca tggcgacacc atctctaatt 60
tgcgcgcaat atactcatca ctttattctc tacaacacaa acgtcaccgt tctcaaattc 120
atctccaaaa tgaccacca ctactcgtat tttatcaatc tgtctcatat aaaatttact 180
caaagcaatg cttagcgatc ggagctcaac tcctagctaa atatcaacta gagcaccaac 240
gtatctatcc tcatctatcc ttctatcata ttatacttca cactataaac cttattttaa 299

<210> 33022
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F5

 <400> 33022

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 ccgaccgact gagagtttgg agtgtgtatg atttgctatt actctagtag agtgtgggta 120
 tacctgggca gaatgtgtcc tcaaaagttg ggggcctgtc tgtgtactgt gtgcgatgga 180
 cgccctaagt aaaaaaaaaag ggcaggtgat ggtcgtgctc caggtgatgg tcgccctaatt 240
 cagagaatgt atgctaaaaa aaaagccaga gtgtttggct cctgggttcat gttatgctga 300
 atcttggaat 310

<210> 33023
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F6

 <400> 33023

 aaaaaaaaaa aaaaaaaaaa taaaaaaaaa ttttttaaac aaaatccaaa atatatctta 60
 ggagg 65

<210> 33024
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-F7

 <400> 33024

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 ccgacgcgta cgtccacgcg ttcggacca cagtttcggc cagcgttacg cccacgcgtg 120
 cgaccacgcg tgcgaaaaaa aagcacaccg gacaccgaac gatgatgcag tgctcttacg 180
 ggcgatggga ccctacctat agctgaaccg atataaaagg gcggccggtt tataggcccc 240

aaagataagt cttcgcgatg ccaccgcata cgttttctga cgtgctaccc aaatgcaaat 300
gacgggacgt ccggtctcaa caaatTTaat ggcgaaaccc tgcTgggtca caaccg 356

<210> 33025
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F8

<400> 33025

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ggggactccg ctgctcgcca acggtgcagc cgacgtccgc cggaggaggg accaggcgaa 120
ggcaattctg tccacgcagg ccgtcaggat cgccaccaag gccgagcagc atgagcgctt 180
catctttaag gtcacacact tgctgggtgt tcttgattt gggggatttt gctatctctt 240
gggtgccaga ccacaggatg tgccatatgt gtactgcctg ttctatgtca tatttgttcc 300
gctccgctgg atttactacc gctacaagaa atggcattac taccttctgg acttctgcta 360
ctatgccaac acctttctcc ttgtaatgat tctctctac ccagaggatg aaaaactttt 420
tatggtttgc ctttcgtttg caaa 444

<210> 33026
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F9

<400> 33026

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tgcgggctgc ggcaaggggg agggagagga cgtgacgagg ggaggggagg ggaggaggga 120
gggcaggcgg tccgacgaat gcacagtccc ggagaatatt ggtgaagcaa taacttgata 180
ttgggttcta gaccaaagaa gcaatggaaa aggaatcatc tgccacatac gagccaaaaa 240
ggaacagtga aataagggtt tttgagagt cagatgagat ttcaacggat cttgctgagt 300
atatctcaca agtttcagaa atttctgtca aagaaagggg ataccttgcc atcggcttat 360
ctggagggtcc cctagtcaag tttttgggga aactctgtga aactccatac aacaagacac 420

t

421

<210> 33027
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G12

<400> 33027

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gaacattcct gaaacaccct taactctaga tggcatactt tctgctatag actgccagtt 120
cctcaatcat aaagttacaa c 141

<210> 33028
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G2

<400> 33028

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aggaggatt cgatcacgcg tactgacgac cacatacagg tacacgttct aaaacccatc 120
cgaccacgac tacgcaagac tacaacagat gaataggtct gttataaaat ctacttaaag 180
caattgtag tgataggtgc tccaacctct atgaaaaaat gcactatcgg tacacaccat 240
tctaggcgca actatgctac taccac 266

<210> 33029
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G3

<400> 33029

cccacgcgta cgcccacgcg tacgtccacg ctttcgtcca ctcgttcgaa aaaaaaaaaa 60
aaaggaagaa tt 72

<210> 33030
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G4

 <400> 33030

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 gcggggaggg tctttacagg ctagccagcc agctggtagc tcttgccgac aaggcgatgg 120
 ttggtgccaa ctttaacttt ggaccgagct tcggcttggt ctttcggaa gaagctccct 180
 tgtggtcaat aaagacacca ttaccttaa 210

<210> 33031
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G6

 <400> 33031

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 ggcgtccctg aacctcagc cttctacgtc ccgcctcggc actcgacggt cgacggcaca 120
 caccgcgcag tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180
 cgaatacgat gaacggtgcg gtgacaggac tcgccgagaa gaccatctgg ggcaccgtcg 240
 tcgccacctg gtacaacagg ccccttgagg agcgccacgt agagctc 287

<210> 33032
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G7

 <400> 33032

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 ggggatcgtg aacctggtct agctatagcg tcgaagagga actagtactt agacgctcgc 120
 gactctggcg atgaccgttc tgatggcgac caacggacag tgttcaagtg cagacgcgcg 180
 accggctata gaccggtgaa ggcggtacag gacgatactc ccgctccttc cgtcggtgct 240

aatagacagg atgatgcc

258

<210> 33033

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-G9

<400> 33033

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aggaccgttc ctgctgctgt gcctgctgtt gtctttctct ccggtggaca gagcgaggag 120

gaggccaccc tgaatctcaa tgccatgaac aagctcagca ccaagaagcc atgggccctg 180

tcctttctct tgggcccgtgc cctccaggcg agcaccctca aagcctgggc tggcaagggtg 240

gagaacgtgg agaaggctag agcggctctc ctgccagggt gcaaggccaa ctccgaggct 300

accctcggca cctacaaggg tgatgctgtc gccgacaccg aaagccttca cgtcaaagac 360

tacaagtact gagttgcttc tctttgcgat ccggttggtt tgga 404

<210> 33034

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-F11

<400> 33034

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tttgaagttt gtcctagaaa aaaggtttca agcattctcc ttgttgagaga ctgatatctc 120

ctgttcctgg atcctaata gaactgttttag aagctctgat aattgtgcct atggaaacag 180

gtcttggaatg tggttaacaa gatgcccgagc ttgagaaaga tttccttcct agcgcattct 240

ctgggtgggt tggttgctag atatgctatt gcaatactcc actcagtctc agtggaaaca 300

aataatgcat gacaaagtag tgcacttact gttcctacac aaga 344

<210> 33035

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H1

<400> 33035

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ataaaaaata aaaaaaaaaa atattaaagg gaaaatcaat aaatcaaata tgaacacaaa 120
aaaaaaaaaa acataaatta aaaaatatac tattttataa ttccattcaa aataacacca 180
tataccttat ctgatatac 199

<210> 33036

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H10

<400> 33036

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gaagagagca aaagatcttc tgtacaagga ctacaacttt gaccaaaagt tttctttgtc 120
gacgtctagc ggctctggtt tgaatctcac agccactggt gtaaagatca acgaagactt 180
cattggtgat atacggacac aacataaaaag cagtagaact actattgatg tcaccgttga 240
tagtgattct aaagtgtcaa ccacagtcac tgttgatgaa gcactaactg gtttgaagac 300
ttcatcgcc ttcaaagttc ccgatcacia gtctgggaag cttgatctgc aatatgca 360
caatcgtttt tcattgaact cgaccattgg tttgacatca gcacctttgg ttgaactggc 420

<210> 33037

<211> 253

<212> DNA

<213> Zea mays

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<400> 33037

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aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaagaacaa aaaaaacaaa 120
aaaaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa tatcacagac 180
aaaacaataa aataacaacc aaaacataat aaaataataa acaaacacaa catataataa 240

atacaactac taa

253

<210> 33038

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H2

<400> 33038

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aattctttca tttc 74

<210> 33039

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H4

<400> 33039

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tgtttcattt ctccatcctg agttctttac ctctcttcta tctataggtc tattcatagg 120

cattcatgaa aattttaccg agagaaaaga ttggaaggga ggtttaattc tggcccttag 180

gtgtggaaac tttggtgatg gtaggtcgat atcttaccag gtggaaatta ccatgccatt 240

atagcacggt atttgtgaat attt 264

<210> 33040

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C1

<400> 33040

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aagcagatcg acaagctcgt gggcgcgaaac aaacctgagc tcgagaagaa agtgctagca 120

gccgctgatg ccagtacgtc ctagtgacac aagtggaaagt gggcaaacga tctgtgatgg 180

ctttccggtg tatagtttcc atggttcatt tgtgtgcttg tcccatgttt gcctggggac 240

gatgacgttt tacaattttg gcccccatcg cgcgcactcg tctgtttctc tcatggaagg 300
 ccgtgtgaac ctgtgcctgt gtttgacaaa tgaacggaac tttatatgga ccaatgctta 360
 aaagtctttg caacctaat ttttaagggtt ggttgcatga aaaaaaata aaaa 414

<210> 33041
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C11

<400> 33041

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 ggatgatgag gatgaggata agcagcaaca cacaccgacg acggagagcg aatatgcacc 120
 gcatcgagct gtagctcgtc cgcggcctgt gcgcactggc agtgcccgtc gtacacggcg 180
 gcaatga 187

<210> 33042
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C2

<400> 33042

acgctcggcc cattcgtagt tcaacacccg ccaacagtct tcgcgcggag agcgcaatca 60
 acagacagag gaactgctgg aagctagcat cttaccact cataagctat ggcagttcat 120
 cgcaccctct ttgcttgccg gtcgtcgcat gctacgcact acaatggcgg cctgaccgcg 180
 cctgtgcacg ggacgcaccc tgctgtcgg gctgtctcg 219

<210> 33043
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C3

<400> 33043

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gctggcgctg gtctcatcg tggccttcgt ctcgctggtg gtgtacctgg cgctgcgccc 120
 ctgaagccg tctttctacc tgcaggacct gcagctgcgc atgcccatct cgctgggcga 180
 cccgtcgctg acggcgctcg cgcattgtgac gctggccttc cgcaacgcca acgaccgctt 240
 gggcatcttc tacaagcgcc tggacctgtt cgtaacctac cgcaacaagg c 291

<210> 33044
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C5

<400> 33044

gttatagatc ggcacagtcg tccgttgact ctttttatca taaattagat aaggtacacg 60
 aggttgacta attacttttg aataacttca caaatcatat ggaagaacca tagcatttcg 120
 cgattca 127

<210> 33045
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C6

<400> 33045

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 gagagctatc aaacaagcta acgcggtctaa catacacccc accagactca atctctc 117

<210> 33046
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C7

<400> 33046

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 aatggcagga ctcgatcaa aggccctcgc cgtggctgcc gtcttgccgg ccgtcgtcct 120
 ctcggtggcc tccgcggccg aggcgccgc gccagcccc gtcttcgccg tcgccggcgc 180

gtcagcgccg ttcgctcgcg cctctgctgc ctacttcgtc gccttcctct tcgtccgct 240
 cctgcactga gcctatgggt cctttccacc gtcgctgctg tctagatcta tttattggag 300
 tggcatttca gtagtacttg ttctaggg 328

<210> 33047
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-C9

<400> 33047

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 aaaactacgg atagagtcga ccactgtgctg ctggcttacg ccatgaacga tgagttctgc 120
 agagtgtccc atcagcatat gaagttcttc tccagcaacc catgctcacg tctcactcaa 180
 gacgtgtacg aagataaatg agcatagtat acacac 216

<210> 33048
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D10

<400> 33048

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 gacacatcgt ccaaatttgg gcacggctgc ttccagacta ccgatgagaa gcagaggttc 180
 tttggcaagc tcaaggcgta aggtgctgctg gtgcagcgaa gtcccatttc tcaaaatcat 240
 caaactgaga tacttttggtt tgtaaccttg ctgtaccaag tttttagacc atggtccggt 300
 cgtctatgga ttgctccatg cttcagaact gcactgtcta tgttttgcgc tatctggggt 360
 gttaatggcc caaaaaaaaa attaaaattt ttatatgttt tctacatta atatt 415

<210> 33049
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D11

<400> 33049

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agctgggtcc ttcttcgtgc agaatgacat gttccgcctg aactatggct aaaagacagc 120
cgaaaactct tgtgatgaac gaatttgta agggcttcat gttgagacga tgaataccga 180
ctgtcgccgc tactctcacc tcctttgtat ctctctgtt ggctgattaa ctgttattac 240
aagaaattgc tggacttggt tttccagtt gttttgaatc atgtattatg gttgcatggg 300
caccatttct tcgtgggatg tgaattgaaa cagtccaaat caattggtgt gggc 354

<210> 33050

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D12

<400> 33050

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tgacattcaa acaatgttca taaaaataa caagctaaac catctctttt actcacaatg 180
aatacctcct ctacactata aactcaagta ct 212

<210> 33051

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D2

<400> 33051

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tggctgagat gtgtaagata cttctacatg ttctcaccct cgcagagctt gttatggcct 120
atagatgtaa ccgcctttgt taatgcctcg atgtagcccc cagcagagcat cgcatagcac 180
ctgttatgtt gtcagcgctg ctactgataa tcggttctgt tggtaaatgc tactataata 240
atcggttgtg gtgcaagtaa tgtgaatagt gtaagagtgt ttctgtgtca aaaaaataa 300

catcgagcgt acatcttaat cggccaactg aac

333

<210> 33052

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D3

<400> 33052

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ttacgaggag atctctagta acggcgagcg aacctagagc agcccaactt gagaatacaa 120

caggcctcgc cttctaaatt gtcctatgta aaggcctcc 159

<210> 33053

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D5

<400> 33053

cccactcgtt cgcccacgcg tccgttgacg cgttcgttaa aactagcgct gtttac 56

<210> 33054

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D7

<400> 33054

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gggggctatt attctgaatt aagaaggaat aaaaatttaa agaattattc tataaattat 120

tttaaaatta aaaataataa taa 143

<210> 33055

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D8

<400> 33055

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ggggccttgt acacgtacgg cggatccatg catgactaca gaccgacgga ataagtaaac 120

tcaccctaaa actagtcaga gctcactcgc acgctgacgc tcacacttat actacacgtg 180

ctcagtaaga ccacag 196

<210> 33056

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-D9

<400> 33056

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gtcctgtcat taccatggc tgaacacaac caccagctct agcagctcgg agcagctcaa 120

gcatgacgac agaacacgac gggttcggcg cctacagcca gtaccccaac tacaagaacg 180

actccttgac cgaaatctac tgctccgtct agaacaatta cgtcgagtac attaatgcat 240

tgaaccaacg catgcacaag cagcacactc tgagacgcct atgacatcga ccgcggctcc 300

tccgcactct acgacaagca ctatgcaaag aacgaccc 338

<210> 33057

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B8

<400> 33057

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ccagtatgga cattgacaaa gctcagtcta ctctaccaa gaaacaatta actggcgtct 180

atgatttggt tgctgtcttg acacacaagg gaagaagtgc agactctggc cactatgttg 240

gctgggtcaa gcaagattac tgaaaatgga tcgagtttga tgattactat ccatacatgc 300

ttaaggaaga agacattttg aaactatctg ttgaagttac tggcacaatg cttatatct 359

<210> 33058
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-E1

 <400> 33058

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 gggcttcgcc tgaagccatt taccggggcg cccaagccg ttccgcccga aaacgggcgc 120
 ggcgggtccgt ggcggagcgc gcggaactga gcccttcgct ggtgatcagc ctgagcacgg 180
 gcgtgtcgat cttcctggg 199

<210> 33059
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-031-Q1-K1-E10

 <400> 33059

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 tttccaatca gttgatcaaa actctgaata tcaactaaaga tggctcaagc agaagcattg 120
 atgttctctc tgattcaaca gcacaagaat catttttggga ggcgggtgaag ccagtggtc 180
 gtatcaatgc atgcttggcc gtagggaaag atatgctcta cttgtatgga ggaatgatgg 240
 aagtgaaaga tagagaaatt actcttgatg atctatattc acttaacctt agcaaacttg 300
 atgagtggaa gtgtatcata tcggcctcag aatctgaatg gttagaaatn tctgaagaag 360
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<210> 33060
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 <213> Zea mays

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<400> 33060

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ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180

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<210> 33061

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E3

<400> 33061

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ggcactcget gtcttctgat agctgctgct atatctactt cactaaccta agaagcgtct 180

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<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-E6

<400> 33062

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actgattaac ttttaataact ctcaaagtat cattattaca cttactccct cactcatata 180

ataattctac accaataaca tcatttcaca aaatcttact acatttcac tcaacaaata 240

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<400> 33063

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acctaataac aaacatatct tcggtcttta gcttccttat actgcaatcg catgcatctg   360
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<210> 33064

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G4

<400> 33064

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atgcatgccc aagcaagaat gaccactgac gctagtctcg ggggccgtac ggcgacgtgc   180
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<210> 33065

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G6

<400> 33065

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acgcatgggt tccaaagcgt acttccgtgt cacgctcctc ttgctgctcc tcgtcgacgc 180
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cagcccgtg tgctcaacct gggaaaactt cacggggccaa 340

<210> 33066
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G7

<400> 33066

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caacgtgatc atcgaggagg tgaacaaggc cctgaacca ggaatgggtg ttctgctcgt 180
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gaagacgctc ccgccgaaga agaagaagcc ggtctccaag aagaagctga agagggaaaa 300
gctgaagcag ggggtctcgg cgccagggga gtgaacagac aaggatgccg gcgatccggc 360
cgctctgagg cccgccccta ttacatg 388

<210> 33067
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G8

<400> 33067

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ggttagggca ccatgtgcat tgac 84

<210> 33068
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G9

<400> 33068

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tctgacgttt gcctacctga tcttcagggt gactaggatc aagcttacag gaaaatcagg 120
cttcctgctg aagatgtgca gggcaagaat gttcttataa actcttttgc gttgaatttt 180
accactgata aatt 194

<210> 33069

<211> 259

<212> DNA

<213> Zea mays

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<400> 33069

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ctatagcaac acccaatgat tgctaactat gattgtacct tacataccca gaagaatctt 180
tcgtcgcacg ctaaatcaat actaatgtcc aaacaactaa tctctattac caattgtgtc 240
aatagactaa tccattcat 259

<210> 33070

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-H5

<400> 33070

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ctttgtgaga atcttctgga gctttaacga ctgcagaata acagcagcct accgagttaa 360
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<210> 33071
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H6

 <400> 33071

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 tgtcttgcca ggccatccct tcgatccaaa cggaccttcg atgccaacgt ttcgaccac 180
 cgaatatattc aaatcacggt ataagtagtg gtactttact agcgcccgga tgctactact 240
 tatcctacac ctctaaagat aactacacat attaagactt tttgtcaaac tca 293

<210> 33072
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H8

 <400> 33072

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 ccatccaacc tcttaagccc tgacttgat ccaaaaatat atcctttgcc ccaatttcaa 180
 cccacgtaat aagtttaata accacaaaat tagttatatt tcacttacac ccgtatgctt 240
 ccacttattc tacacctc 258

<210> 33073
 <211> 209
 <212> DNA
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 <223> Clone ID: LIB3068-030-Q1-K1-H9

 <400> 33073

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atatcttcta tcttgatccc tacattacaa tccaatgcac gatgtctaca acattgtata 180
 ctgcaaaaac cctaccctca cccaactta 209

<210> 33074
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A1

<400> 33074

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 acatgctctc cttgcggttca cccttggagt gaagcagatg atttgctgct gcaacaagat 180
 ggatgctacc actccgaaat actccatagc acgttatgat 220

<210> 33075
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A11

<400> 33075

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 agcacctaac atgaccatga ttgtaatcat aatactagta ccagtcgcaa tctcatttct 180
 acagtgccta aacctatcaa tcaacctaac cgactaaggg ctactatgga tgaaggactg 240
 gaatcgtgca tcaatctcgc tcacaattct tacctggacg accgcggaa 289

<210> 33076
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A2

<400> 33076

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caagcgggag ctcgccgtct tcttcggcca gacgttccac gaaaccaccg gtggatgggc 300
gactgctccg gatggaccgt ttgctgggg atactgccgg gtgaaggaac agaaacagac 360
ggacccaccc tactatggac gaggacca 389

<210> 33077

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A4

<400> 33077

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cgactagcaa acacgcaggc gggagctcga cgactttatt gtccaaaagt tccacgaaac 300
caccagtgga tgggctactg ctctgatgg accgtttgcc tggggatact tgccggtgaa 360
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<210> 33078

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-A5

<400> 33078

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cagtgactcc accactggtg gttttgaggc tggatatctc aaggatggcc agaccctga 120
acatgctctc cttgcgttca cccttgaggt gaagcagatg atttgctgct gcaacaagat 180
ggatgctacc actccgaaat ac 202

<210> 33079
 <211> 109
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A7

 <400> 33079

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<210> 33080
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-G2

 <400> 33080

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 gggctaaaat caaattgggc ggtggctctt aaatgc 96

<210> 33081
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A8

 <400> 33081

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 agggggggact ctaccaatag aagggtataa acactctctc atgcaaggat aatcaatact 120
 ctagaacatg ctctaattac attaaccttt cgaattatta catatcattt actggttacia 180
 cacgatggat tcaccatta ataa 204

<210> 33082
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-A9

<400> 33082

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cgtgaagaag cccaagatta ccgaagtga cagggccatc ctcaccctca agacgcagcg 180
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gaaagctcag gaagagctgt tgaacatgt tgacacatgg caaatgaatg ttgaacaaca 360
gctctcagat attgaactag caagtaaaca aaaggctgta tttgaaagcc tgaaagctgg 420
aaacgctgcc cttaagtc 438

<210> 33083

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B1

<400> 33083

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tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240
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<210> 33084

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B3

<400> 33084

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actgagcggc caacaatcaa cgcagcactt gaagcccgaa cgcgtaaaag ctacagcttc 120
gcttgaccca atccctatgc tttaacgcga agcttcattt gacggaccac tacagacact 180
gataggacaa aaacatttca gccaatctgt gtcgacaaag acgagtttca acagcgatga 240
tcctaactaa acaaggtgta tta 263

<210> 33085

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B5

<400> 33085

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agataatgca atcaagcccg atcaatccag ccaagacgat attactgtcc aaaattacga 180
acctcgctat acatataatc acctacatac ttgaattaac tcactagatc ccgaaagtgc 240
actcgctactc tacagctaatt 260

<210> 33086

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-B6

<400> 33086

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ggatgcaacc actccgaaat actccaaggc acgttatgat gagactgtga aggaagtctc 240
atcctacctt atgaaatgcg agtacaaccc ctgataagat tgccttcggt cccataacag 300
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<210> 33087

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D10

<400> 33087

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<210> 33088

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D3

<400> 33088

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acgactgctt tgactgcggt gactttatct taagcctgac cgagcccccg tctgcacacc 360
taggccgtgg gactgct 377

<210> 33089

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D4

<400> 33089

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caattgttgg ggagatacgc ggtctgggac tgatacttgg aactgaattt gtcgacaaca 180
aatctccaaa tgatccattt ccagctgaat ggggtgttgg ttcgatattt ggcgcggagt 240
gcgagaagcg tgggatgctc atcaggggtg ctggggacag catcatgctg tcacccccgc 300
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<210> 33090

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D6

<400> 33090

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gtgccgcggc gggcgcatgt tcgcgccac caagatctgg cgcaagtggc accgccgcgt 180
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cgacttcgcg gagtccattg agaagacctt ccaggcgctc aagatcctta agcagatcgg 360
cgcccc 367

<210> 33091

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D7

<400> 33091

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atgtgcgtga tctcctcctt ggtcagtact atttcgacag tctccttcca cgagtgcctc 240
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 aagaatgact ggggattcca acaagcttga atcaaatgat a 341

<210> 33092
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E1

<400> 33092

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<210> 33093
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 <212> DNA
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<223> Clone ID: LIB3068-030-Q1-K1-E11

<400> 33093

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 gcatcgctgc cgcagaggac tgccgaaggc gtctgtcggc gcagctaggc atctcggccg 180
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<210> 33094
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E2

<400> 33094

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ggggcgatga cgctgggtag ctccggcgcc ggatcgagcg tcgtcggtcc ccgaaacttc 180

aggctattag aggagctcga gcgtggagag aagggcattg gtgatggaac agtgagctat 240

ggaatggatg atgccgatga catctacatg cggtcatgga ctggtaccat cattggccct 300

cacaatactg tacatgaggg tcgcatctac cagctgaagt tgttttgtga caaggactat 360

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gagacatgaa tggttgat 438

<210> 33095

<211> 338

<212> DNA

<213> Zea mays

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<400> 33095

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ggagcaggtg ttctccacct actcggacaa ccagcctggt gtgttgatcc aggtgtacga 180

gggtgagagg acccggaccc gcgacaacaa cctgcttggg aagttcgagc tctccggcat 240

cccaccggct cctcgtggtg tccccagat cacggtctgc tttgacatcg acgcccacgg 300

cattctgaac gtgtctgccg aggacaagac gacggggc 338

<210> 33096

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E8

<400> 33096

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tgctaattga 70

<210> 33097
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-E9

 <400> 33097

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 tcggcggcct cgctggggcc acggacgacc actcctcca caacgccttc agcacctact 180
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc ctcggttcg 240
 gcttcgtcac cttctccact gatgaggcta tgcggaacgc catctagggc atgaactgca 300
 tggagctgga cggtcgtaac atcacggtca actaagccca tt 342

<210> 33098
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-F1

 <400> 33098

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 gattacgtta gaataagaag atgtatatgt aaataaaaaa aaaaaaaaaat aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacatt aaaaaataca 180
 caatttaata 190

<210> 33099
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-F12

 <400> 33099

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 gagagacggt catgtccttt tggctgtttg gtttattcat atcacaactt ttgagtgtat 120

acaagattat ttatgtggca aacctcaaag attgtaaggc gatacatgcc gaaaaaaaaa 180
aaccttgcgga agttaggata ttcacgggtt taatgttcgt ttgaaccttg tttttca 237

<210> 33100
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F2

<400> 33100

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ggcaataata taccaggttt cacgagtgcg ggtgtgagat tggcagcctt tcctgggcct 120
ggtgtgaaga aagtgaaaaa gattgtcatc aagaagattg ttaggaagat tggtgccaaa 180
gataaacaaa ctagtagttc aaccgtccca gaaaaggaca tcattgatgc taatgtaaata 240
gcctctgaaa aagaagaagc taatgcaaata gtttctgaga aagaagaaaag tgagatcaca 300
acatcatctt ttgagaagga tgctatttct gcacacaatt tggtcagtag tagtgataca 360
gctggagttg ttaacagtgt ggaggtccaa aaggaacaaa atagtgatct ggtaaatactg 420
aagaaaacaa tgc 433

<210> 33101
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F3

<400> 33101

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tagtggtgct cgttgcccca tgtgtgccgc tgaagattgt gtctatgatt ggcttcatat 180
actatgacta tctactctca tgtatagcag aatgggtcct ggtatatcaa gcatgttaca 240
gtct 244

<210> 33102
<211> 203
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-F4

<400> 33102

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cttaccctaa ataaatacct ttttactaac ccagtcata aacatctatc caaacctaac 180
atcatttgct atctttatct cat 203

<210> 33103

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-D1

<400> 33103

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gacatattag agctaatact tgcataacac cttgacatgc ttgaagagcg cattaacttg 180
ataaatagct gacacggact atgaccgctc aattgatgat acataatcac ttaaccgatc 240
gcaaggctca cggacacgag acgcatcata catatctcta gcctatcaac tttagatagt 300
aacattg 307

<210> 33104

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-030-Q1-K1-F6

<400> 33104

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taaaatattt attatgtctt agtacatgat ctccatctnn tatcttagag aagaggctcn 120
nnctcttann tcttaagtgn gatggtcgat cttaaactctt gaatnnaata tttctatctt 180
aatttcaaat tctgatcctt tagatccac tctatatcta taccatgta agttatgata 240

tatgcctggt cgacataaat aaaatattag tgcccattta attctatata accatnnntc 300
 ttatccctaa attaataccc ttgggactta atcccgctccc ataatacaac ataccctaac 360
 tctacattcc ataggtttgg tctaaatcca attttgtttc 400

<210> 33105
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G1

<400> 33105

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 gttctagaga aatgatgtca ttctcttcaa tgctgctaaa gggggactca acactgtctt 120
 aaaatgacgg tagacgtgtc taggtcagta ataagagtgt gtaaaatctg aatgagatac 180
 gaatacctct gcaatgatga aaatctaatt atgcgcgtat ctcatagat aacaaggcgg 240
 t 241

<210> 33106
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A12

<400> 33106

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 catgatagct cacctgttca acgcgccgat caaggaggac gagacagcta ttgggggtcgg 180
 aacagtggga tcctcggaag cgatcatgct tgcaggtctg gcgttcaaga ggaaatggca 240
 taacatgagg aaggagcagg ggaaaccgtg tgacagaccc aacatcgtca ccggtgccaa 300
 cgttcaagtc tgctgggaga agtttgcaag gtattttgag gtggagc 347

<210> 33107
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A2

<400> 33107

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tttgctgggt ctgaacgaac cgaaccctgc tgcaactgcg atagaagagc agaatgcttt 180
ggcgctagct attgttccga tagatgatgc tccgaaagct gctcccactt ttggaaatgg 240
agtcactgtc tgggaacttg cccttgtgac agcaccaagt tcaaatgaga cctccgttgc 300
cccaagcaag atactggccg gtggtcttgg acttgctgac tcttgacagc ctg 353

<210> 33108

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A3

<400> 33108

aaaaaaaaaa aaacaaaaaa aaaaataaaa taaataaaaa aaaaaaaaaa aaaaaaagaa 60
agggggccta aa 72

<210> 33109

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A4

<400> 33109

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tgaccctgaa ccacagccac tgacatatga atcaccagaa actgaaccga attcgctgta 120
tctgaactaa ccaggctcta ttgcaactgc aatagaatac cagaatgctt tggcactagc 180
tattgaatcg attgattatg ctccgaaagc tgctaccact tttggaaatg gactcactgc 240
ctgccaactg gcccttgtga cagcaccaac ctcacatgag accgccgttg cccaagcac 300
gatactggcc ttaactctgc acttgctgac tcttgacagc ctgcactact aggctaaccg 360
tacagcgagc cagcc 375

<210> 33110
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A5

<400> 33110

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gcgcaaccac ggggcgtgcg cggcgctgct gaaccgcgctc gcggcggagc ccatgggtgtg  180
gccttccccg ctcaagttca tcagcgagct ggaccgcgag gcgaaggctc tcctggaagc  240
ggcactgatg gacgccaata gggagagggg ggagaagatc ctcaagggca tcaccaagta  300
tccgcaggca tcgcctactt cgccttgcca gcacgatgcc attgacgaag           350
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<210> 33111
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-030-Q1-K1-A6

<400> 33111

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agcgcgcgcg ggcgggtgga gttgaacgcc gcgccgccgc cgtccaggca cggcgacctg  180
ccggcgccgc ccagcgagcc gcagaactcg cccgcggact gccacagggt aacggatgta  240
gagacgacgt gagtatcact ggtttaatca tagacgttac cttgtaatgg cgtgatcatg  300
ttcattttgg agtgtgggta gtcccctagt tttttataac agcgaatctc tcgtctacgc  360
ctccaaatcg tcgaagccgc acctaatgac ctncataatg gcaaatttct ctctatcagt  420
ggagcaacca                                     430
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<210> 33112
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A7

<400> 33112

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ctcgtccgat gttggggctc tgaagggttg ggctgctggg ttggtgggtc ggccggacgac 180

atgaggtctt cggaggaaac tttgcttggg tgggtaccagg cgagcggcga cgacttttcg 240

atgtcgtctc tccttcttga aggcgcgggc caaaagacct ctagtttgtg tgttcgctcg 300

cgttgtggag gctctttgtc actccgcttg gctcgggtgg gtctgggtca ttgtcgcttt 360

aagcgtctgc ttggctccca agttcggcgt tgtggatctt t 401

<210> 33113

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A9

<400> 33113

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acccaactg ggggcatatt aatcaccaga aactgaaacg aattcaatct atctcaacga 120

acctaactct attacaactt caa 143

<210> 33114

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B1

<400> 33114

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gactaaaatc aatcacgggt aaacaatata atagatacta taactatata taaagaaaca 120

ctaatacctga ggggtctaatt atttacagca cctgatttta ttacgagat tttcactgac 180

cctatttact atatatgtac acctaagttc aatgtaacgg ccttggttta atcagctcgg 240

aatgaagaaa ctcttgagct tgcctatatt actactttgt gaaatgactc cctttgtgta 300
 ggttgactta taacctaaag gcccaagtca aataccacta cctataacgt tatcatactt 360
 attgccaatg gcgacagccc ttcacccgcc c 391

<210> 33115
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B12

<400> 33115

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 ccactgcatg ggccggcacc cccatcaagg tgggttcctt cggcgagggc cgcataacca 180
 tgcgcatgac cgtgtgcaag cccaaggctc ctgcgtccgg cagcccctgg tactgtccct 240
 accgcgtcaa gtacctgtgc cccttctacg gctagcccc tagctacctg accggcgagt 300
 tccccggcga ctactgctgg gacaccgtca ggctgtccgc ctaccccgag acattcgtca 360
 agaacctgca gctgtaggtg atcc 384

<210> 33116
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B4

<400> 33116

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 gagtctatat cgc 73

<210> 33117
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-B6

<400> 33117

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 ggcaagagggc aggtcatgat caggccgtca tccaagggtca tcatcaagtt cctgacggtc 180
 atgcagcgcc atggctacat tggagagttc gagtacgttg atgaccaccg atcgggcaag 240
 atttgtggtcg aactcaacgg gaggtgaac aagtgcggcg tcatcagccc tcgctttgat 300
 attggcgtga aagacatcga gggatggact gcaaggctgc tcccgtccag gcagttcgga 360
 tacatcgtcc tcacgacttc tgcaggcatc atggaccacg aggaggcccg ccggaagagc 420
 g 421

<210> 33118
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-B7
 <400> 33118

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 gcaaacatgt cgaggaggaa gaccaggag ccaaaggagg agaacgtcac ctttgaccc 180
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 actttcattc atatcaccga tttgtctggg agggaaactc tggttcggat caccggtggc 300
 atgaaagtga aggctgaccg tgacgagtcg tcaccttacg ctgctatgct tgctgctcaa 360
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 accggaggca acaag 435

<210> 33119
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-B8
 <400> 33119

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agggccggcg tgctcttgat ctcaaccaag gcggtgtctcc gctccgggtca cccgtcactc 120
 cacgcaaaca tgtataggat gaagaccatc gagccaaagg acgagaacgt cacccttgga 180
 cccactgtcc gtgaaggaga ctatgtctat ggtgttgctc acatctttgc atccttcaat 240
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 ggcatgaaag tgaagctta tctttaccta gacttcaact tacgcttgct attcttgctg 360
 cttaat 366

<210> 33120
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-C1

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 ctgcccagc agcggaggct accctgggca cggcggcggc ggctgcagcg gctaccgcga 240
 ctgccggtgg ggctgctgca accgcgggta ccatggcagc tgccgggtgct gctcgcaccc 300
 tgatcagata ccagagccca tgtaccgtcc tgagctcgtc gaggtccaca actaaatagt 360
 aatgagatgc gctgctacta tatatacggg tacgtatgcc ctatgggaaa cagagcacac 420
 gcgtagtacg c 431

<210> 33121
 <211> 56
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-030-Q1-K1-C11

<400> 33121
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<210> 33122
 <211> 330
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A10

<400> 33122

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agcagtccgg tggaggcgcg gacgacgact gagagtacgg ctctcccgg tacgactcgg  180
agaagtacag gaaggaggag aaggagcaca agcacaagga gcacctcggc gagatgggct  240
cccttgccgc cggcgcccttc gccctgtacg agaggcacta ggccaagaag gacccgtagc  300
acgcgcagcg gcacatgacg gaggagggct                                     330

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<210> 33123

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C12

<400> 33123

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gaacacacgg cgtatggtat ggtacacagc aaggccgtgt tgttgctgta agttttgtaa  180
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taggtatttc cataccgtca ttagtggatc attgaatttt tttgtaagaa ggttattgca  360
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aaaaaaaaaa aaaaaaaggg cgg                                           443

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<210> 33124

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C3

<400> 33124

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gctcctgctc gccgttgctt tgctcgccgc ctctctttac taataagccc atgcgggcat 120
acaagataag aaggcgtagg tccaacactg gcacggcatc cactgctacc cctagcacag 180
ctgccacgac agctgatgct aacttgagca cggatgttgc cgttgatgat gatacccgta 240
ctgtcgggtgt ggctgctgca accgcgggta ccatgacgtc tgcttgagct gctcccaccc 300
ttatcagatt ccagatcata tgtac 325

<210> 33125

<211> 255

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-030-Q1-K1-C4

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cgccgtcttg gccgccacag tcccaggctt cgtggagAAC tcttaatccn ncgattccct 180
tcttcgggtg accgcgcccc tgatcgctc tanntctgct cgggtttctc cctcgcccc 240
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<210> 33126

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-C5

<400> 33126

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cacttctcgc ctttt 135

<210> 33127

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E11

<400> 33127

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gcggtacaaa gatcagtacc acgagccgtc taccaaaagg aggaagctcc cattcaaaaa 120
gtgcatctgc acaccaacaa tgcttgatct atttacttcg catcatgact ccctgcattt 180
tagctaccga caaccctatt ggccta 206

<210> 33128

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E3

<400> 33128

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cgtcgctgat tctcggcgac acccgctctg tgtagctcc cggagcaggg ccgcgggcac 120
ctggagggtgt ggagggcggt ggcttggggt ctagggggtt ggaggctctg cgctcgcctt 180
ccttctgcga cgacgaagca ggctgcgcct cctcaacgcc atccagcgag aaggatggta 240
tatgaatgca tacaacctaa gcgatgagat tcggtgacct cccttcgtgg gtagtcgaac 300
tttctgcact tattcgcgaa gctatcttgc gtgtgcgacg ccggtgtcgg tcttggtg 358

<210> 33129

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E4

<400> 33129

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aagccagtct tcatcagacg ccggacggac tacgacatct atctggccaa cagtgtgtat 180
gtggcatect tgcgccac 198

<210> 33133
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F2

 <400> 33133

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 gtgtcaagag acgaaacggt cgacatggct cgcacgcaat ctgccgtagc ggctcgccgtg 120
 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180
 gggcaggtga gctccgccat cgcgccctgc ctctgctacg cccgcggcac ggggtccggc 240
 ccctccgcgt cctgctgtag cggcgtcagg aacctcaaga gcgcgggca 289

<210> 33134
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F7

 <400> 33134

 tgaccacgc gtccggccgc cctagccgaa cttcccacct gacaatgtct tccgcccgga 60
 tcgggcctgc gaggccagtc cttggagcca aaatgagggg cagtgccccg cttccgacct 120
 acggaataag taaaataacg ctcaaagtgg tggattttca cttgcgccac gaggtccca 180
 cttatactac acctctcaag tcatttcaca aag 213

<210> 33135
 <211> 71
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-029-Q1-K1-F9

 <400> 33135

 tcgaaaaaaa agaaaattaa aaaaaaaaaat attaaanaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagagggaa t 71

<210> 33136
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G7

 <400> 33136

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 tcgggatttg gctcagagat ccatgccagt aacagggtttc aatccctcag gtgctagatg 120
 tgggcacatc acttcagaat ctgttcctgg atgatgtaac tgaaggagac acacagtggc 180
 aaagagtcaa tgcttttaaa cattgatgag atggtcttca gcttataatt gttgtatctg 240
 tagacatgca tgctccatta taagggtgtga gcgagcttgg agaatttccg attgctcatg 300
 aaag 304

<210> 33137
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G8

 <400> 33137

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 ctacagtgca catcctcaac acaagcaacc agcaaccatt tgtcaatcta tttgctccag 120
 gaaaccctgg tctgacacaa tccaagaatt ccatgggtga ttcaaacgca ttatccag 178

<210> 33138
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-G9

 <400> 33138

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 gcttcttcta gctcgtttca tgatccatgt tctgtggaga agctccacca ccaccacctg 120
 ttccaccaca tgtaggacta gga 143

<210> 33139
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-H1

 <400> 33139

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 tccgaccctg agaagaagga gcggtgcag ctggcgga tcaagcacgc gcggtcgcc 120
 atggtcgcct tcctcggtt cgccgtgcag gccgtcgcca ccggcaaggg gccgtcaac 180
 aactgggcca cccacctgag cgacccgctc cacaccacca tcttctacac gttcttgagg 240
 gttctcttaa gcccgccatt gtcgcgtccc gttcattgac cggccggaac gtgttcttgg 300
 attaatgtac ttcgatcttt atgagcctgg gga 333

<210> 33140
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-H10

 <400> 33140

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 caaggagaag tatgggaatc caacgatcta cataacggag aacggaatgg accagcctgg 120
 aaacttgacc cgagaccagt acctgcgcta cgccacgagg gtgcgggttct acaggagcta 180
 catcggccag ctgaagaagg ccatagacca tggagcgaaa cgggctggct acttcgtctg 240
 gtctcttctc gacaacttcg agtggctggc agggctacttg ttcaagtctg gcattgtata 300
 cgtggacttc aacacgctc 319

<210> 33141
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-H11

 <400> 33141

gagccacttg ccagctagag ccataccttaa tatcttgagag ttactgagag tgtgcgtggg 60
agagaggatg ggtggca 77

<210> 33142
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H12

<400> 33142

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aggatggaga agttgatgca tatgtatccc ctcataagga gatagaccca cacaatgcag 120
cacccaagcg aaagaaagcc aggttcatga taccaaagag tgctcaggtg gacagtgagg 180
tgcgccgcga gctgcaggag ctcatggacg ctagggaggc attcatgttc tttatcctgg 240
ggcactcgta catgaatgcg aatagcgggt cgagttttat taaacgtatt gtgataaaat 300
tcttgtacga gttcttg 317

<210> 33143
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H2

<400> 33143

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caagggtccg agatccgcct gcgtcaggta acggtcctat cttgatctcg tagtggcacc 120
tgcgcctgga ttagaggatt cgggtggagga tggcgtgaag gctgtggggc tgatctacgc 180
ctttgtcgcg cgcggcatcg cgggtgctg 208

<210> 33144
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-E1

<400> 33144

ctcgggtctc gcacgatga agaacgtagc aaaatgcat acctggtgtg aattgcggaa 60
 tcgcgcgaac catcgagttt ttgaacgcaa gttgcgcccg aagccttctg gcggagggca 120
 cgtctgcttg ggcgtcacgc caaaagacac tcctaacacc ttcccgcggg gcgagggacg 180
 tggcgtcttg cccccgcgc cgcacggcga ggttgtccga atcatgggct tactgcgaac 240
 cgcgccgggc gcagcacgtg gtgggcgaca tcaagttgtt gttctcgggt cagcggt 297

<210> 33145
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H3

<400> 33145

cggacgcgtg tgatccgcac ctctctccat ctctctgctc ctccgcctcc ttcttgatcc 60
 aggggagcca gtgatcgcca tgcgcgactc ggaggagcac cacttcgaat cgaatgccga 120
 cgccggagcg tccaagacct acccgtagca tgctggcacc gttctgaaga acggcttcat 180
 cgtcattaag aaccgtccct gcaaggttgt tgatgttatt acctttaaga ctggtgagca 240
 tggccatgcc aaatgccact ttgttgccat agacatattc aacgggaaaa agctcg 296

<210> 33146
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H4

<400> 33146

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 gcgcgcctg ccgcgcgcgc ggcgggtccc tctcggatct ctccctcct ccgcctcatc 120
 ccctctgcat ctttttctga ggtaagcgga ggtggggaag aatggggcgc ctctcaccc 180
 ggaggcggcg gcggcagggg tgggggtggg aactaataga gctccacctg gtgtaccggc 240
 ctcaccaagg accatttcga cggatcctcg cccttcgtca gtcgtactgt cccttcgg 298

<210> 33147
 <211> 219
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-029-Q1-K1-H6

<400> 33147

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acccttcggc agcggcgccg gccgacgacg cggcggaccc ctctcggatc tcttccctcc 120

tacgcctcat cccctctgca tctttatctg agagaagcgg aggtggggaa gaattgggcg 180

ccttctcacc cggaggcggc agcggcaagg gtgggggtg 219

<210> 33148

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H7

<400> 33148

tgaaaaaaaa aaaaaaatat aataaaaaaa ataaaaaata aaaaaaaaaa aaaaaaata 60

aaaagagaaa agggaaaaat taatgaaata ataaaaaaa aaaagggcgg cc 112

<210> 33149

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-H8

<400> 33149

cacgcgtccg ccacgcgtgc cgcccacgct tccggtcctc cgcaaaaccc tcctccatgc 60

ggggcctgcc gccgccgagg cggccccctc tcggatctct tccctcctcc gcctcatccc 120

ctctgcatct ttttctgagg taagcggagg tggggaagaa ttgggcgcct tctcaccctg 180

aggctgcggc ggcaggggtg ggggtggaga accaatgtat ctttgactgt gattccggcc 240

tcaccaatga ccatttcgac ggatcctcgc cctccgtcta tgcgtctgtc ccttc 295

<210> 33150

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-A1

<400> 33150

ggaggaagaa aaaccggcct cacctcctgc ggctccagaa ccagaaccgg aacaagtgcc 60
tgagccagaa cccgagccag tgaaagagga agcaccagaa gctgaaccgg atttgctggg 120
tctgaacgaa ccgaaccctg ctgcaactgc gatagaagag cagaatgctt tggcgctagc 180
tattgttccg atagatgatg ctccgaaagc tgctccact tttggaaatg gagtcactgg 240
ctgggaactg gcccttgtga cagcaccaag ttcaaagag accgccgttg cccaagcaa 300
gaaactggcc ggtggtctgg acttgctgac ccttgacagc ctgtacgacg aggcgaaccg 360
gagagcgagc cagccagcaa gctacaaccc ctgggaggcg acccccgacg cgctgcccc 420
gatgatgacc a 431

<210> 33151

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G8

<400> 33151

aaaaaaaaa cattttttat tttaaaaaa aaaaaacaca aaaagggaaa ggttaaaatt 60
aaaaaatgga caatccaaaa ctacgcacct cacttggt acccctctta tagatccacg 120
tttattacac ttctatccat tattaaactc ttttataatt tatccaaact tcaattcatt 180
gacctaactt 190

<210> 33152

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G9

<400> 33152

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gtagcaatag caggggtgac cgcttgcttg gtttggtgac ctgcgtagca cttagattg 120

tgtatctaaa gctgtaggga ttcattgttca tgcgattatg cttggatata ccgagtgaca 180
 tcgtcgaaca taaagatgac ttgtacattc ctcttgttca tcgagagtca tgtgactttt 240
 attaaaagaa acaaatacat tgtgatatca atcacgatat atgtttttt 289

<210> 33153

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-H1

<400> 33153

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 ggctgttgca tttatttttc tgagtgccgg tcatatgtat cgaactaact tcggaattgg 120
 gcacagtatc aaagatcttt tagaagcaca tactcctccg gggggtcgat taggacgtgg 180
 gcataaaggc ctttatgata caatcaataa ttcgattcat tttcaattag gccttgctct 240
 agcttcctta ggggttatta ctcccttagt agctcaacat atgtactctt tacctgctta 300
 tgcattcata gcacaagact ttactactca agctgcttta tatactcadc accaatacat 360
 tgcagggttc atcatgacaa gggcttttgc tcatggagct atttttt 407

<210> 33154

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-H11

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 gttttgggac atgatcaatc ggggtatgga gnccccacca gaattcaggc cagcaatgtc 120
 tcaaatcgtc caagacctag ctaggattgt aggtgctagt agtgaggat cagagtgaca 180
 aataaaggag gaacagtaaa acatctagct tgccagtggc gtggccagcg aagatcccta 240
 gatccatagc gcagtgccag gggcactcta tctatcagca tttatattgg acgagattgc 300
 ggctagtgt catgccattt tggagcctca ttact 336

<210> 33155
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-H3

 <400> 33155

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 atcctcctct tggtcgcttt gctgtccgtg acatgaggca aacggtggct gtcggagtca 120
 tcaagagtgt ggagaagaag gatccaactg gagccaaggt gaccaaggct gccgcaaaga 180
 agaaatgatg tgtctggctg gttctgtgtt tgcttgaggg aaacctagtg gaaacataaa 240
 atatctcgtc ttgttcacgt cattgtctga actatgctcg caacgtttgc ctggctcgatt 300
 tagaatgggt attttcgtaa aaaaaaaaa 328

<210> 33156
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-H5

 <400> 33156

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 ggatcgcgtc gtcccgtgtc ctgctgccgc ggaaccctcg ccatggcgga ggcgcccgag 120
 accgccgcc ccaccagcc gcctcccgcg ccggcggtt cgtccccgcc tcccaagtcg 180
 gggatccgc cgcggtacga cctggacgcc aagtgggacg cgtgcctcga cctctccatc 240
 cgccgcgtcg cctactcctc cctcggcggc gccttcgcgg gcctcctcct cttccgtagc 300
 cctactactc gctgggcacg agntgccctt ggagctggtg tggggatagg ggctgcatac 360
 actgaatgct catacttat 379

<210> 33157
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-H8

<400> 33157

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cgccggctgc cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc 180

cgtccaagtc ggcgctggtg aacggcacgg tgggtgctggg cgcccacgcc atcccgcggt 240

gggagacgtc cggcttcgtg gagtacatcg agtcggggca caagcagggg gacatgctgc 300

tgggtgcgtgc cgcaggcgcg cacaccgtgc ggggtgggcaa ctaggcgtat 350

<210> 33158

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A3

<400> 33158

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gtagctcacc tcacaccaca cagctggcag acagccagac acgcgctgct ttctgatctc 120

tccccggatc ggaggctcct cccaacatac caccctgcca gccgcgccgt cacgtccacg 180

cgggccgggc accaagcaag catggatatg gtttcgcagt ccgagcacct aagctacgtg 240

cgctggacct actgcaacac cgtgctcgc 269

<210> 33159

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-A6

<400> 33159

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gatgaagagg gagggatggc agcacggcgc cgtccggggc agccgcagca aggtgcttag 120

gacggccgtc ggcgacgaca acttcgacgc cgacgcggtc gtggcggtg gggcagcggc 180

ggctgctagg aatccgacga acgcgttccg gagcacgggc aagggccggc tggcccgatg 240

ggcgggctgg cacgcgcacc cggctcttcaa ggcgcgcgac aaggtcaagg gcgcgcgcaa 300

gct

303

<210> 33160

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B1

<400> 33160

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cggcggcctgc ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta 120

ctgcgaggtc ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcagcctt 180

cggcttcgtc accttcttca cggaggatgc atttgtgaac gtcattctatg gtatgaactg 240

caatggatct ggactgtcgc aacatcaccc 270

<210> 33161

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B11

<400> 33161

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gttgagtacc gctgcttcgt cggcggcctc tcctgggcca cggacgacca ctttcttcac 180

aacgccttca gcacctacgg cgaggtcctt gatttcaaga tcattcttta tcgttagacg 240

cataggtccc gcggcttcgg cttcttcacc ttctgcacgg aggttagcgat gcggaacgcc 300

atcgaaggca tgaacggcaa ggagctggac tgtctgaaca tcaccg 346

<210> 33162

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B2

<400> 33162

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggaaaaa ggaaaaaaaaa aagatagaaa 60
a 61

<210> 33163
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B3

<400> 33163

aaaaaaaaat aaaataataa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaac 54

<210> 33164
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B9

<400> 33164

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ggaggataaa aaaaaaaaaa aaaaaggtct accaatttaa caattcacaa ctttcttccg 120
ctttcattca acataatatc cttttttata gccgtaatta ttttaaattc attttcctta 180
atttatcaac ttcattcatTT taaaaaccc 209

<210> 33165
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C11

<400> 33165

tcgaagaact tgagatagta ctacgctttc ttactatca gtgagtatca tgttttaaag 60
agaagttgtt tatttgtatc tcatcttctg agtcattcgt cgctgcaatc ctcaacgaca 120
acctcattcc acttgcttca ttgtcctgca tcatactttg ttacagttct cttgtaataa 180
ttggcttctg cttcatatgc agctagtaat aatattttat tctcttgtca tctccttatg 240
aaactttatt cttgtaataa gtcggcttta cctcttcgga gtttcttata cataaactca 300

ttctatttct cttgagcact taa

323

<210> 33166

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C5

<400> 33166

gagcagagag agactttctc gcctacatcc catcccgccg ccgccgtctc tacggtcgct 60

aatgagccgg ggcattccagg gatggagatg aagaagatcg cctgcgcgct tcttgtctcc 120

gcctcggcca cctgggcgct ggccgcggag g 151

<210> 33167

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C6

<400> 33167

cttaattcat gagggttatg gagggactta tgtcaccaca aacagaaact aaagcaagtg 60

ttggatttaa agctggtgtt aaggattata aattgactta ctacaccccg gaggtagaaa 120

ccaaggatac tgatatcttg gcagcattcc gagtaactcc tcagctcggg gttccgcctg 180

aagaagcagg agctgcagta gctgcggaat cttctactgg ttcattggaca actgtttgga 240

ctgatggact taccagtctt gatcggtaca aaggacgatg ctatcacatc gagcccgttc 300

ctggggaccc agatcaatat atctgttatg tagcttatcc attagactct atttaaaaag 360

gttctgttac taaca 375

<210> 33168

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D1

<400> 33168

gtcaactggg gtgggcagaa cttggtaagc aagcaggagc ggccatgcct gacggagtga 60

cgggtggaagg cggaggcgcg cctttcgcac cgcaccctct gagctctgac cctgctccgc 120
 gaagtttttt tttttccttc ttttttgaca aaagcagccg cttcatcaag catctagacg 180
 gccgggttcgg tgcgggtcgc ggaagtacag cccagggtggc ctgccggcct gttgtttggt 240
 caagctgagt gggcgcgcg gtagccatgc ctcaactaac tgctgacctg taacatcgaa 300
 atggtctgct ctgcgtctcg tggtcgcg 328

<210> 33169

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D2

<400> 33169

cccacgcgtc cgccacgcg tccgaaaaaa ataaaaaaa aaaaaaaaaa aaaaaaagaa 60
 aaagagaaaa aatataaaaa aaaaaaaaca gaccaaccaa tctataacaa tctcatcttc 120
 ccatacgctt gcatacctaca tctatccat tctatcgctc cccttaattt cacttcactg 180
 cccttta 187

<210> 33170

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D4

<400> 33170

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 gagggataag ggccttgagc ccttcgagtt cgaggactcc gtcgcccattg ctttcttcga 120
 cctggagaac ggtaaccagg agctcaagag cgacctcaag gacctttaca tcaactgtgc 180
 tatccatctt gatgttgcct ggagca 206

<210> 33171

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D6

<400> 33171

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tggggccatg gtgcctatca tgacgtccca cttecgacagc gccaacatgg 110

<210> 33172

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-D9

<400> 33172

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gcttgtgtgc atgatggata tgtttttccc aaattgtacg caaagggttca tcaactgtgtc 120
tcatgcgcaa tccatgcaca cattgttcgt gtccgctctc gtgagaacag gatgaaccgt 180
gagccccgc agcgcttcag gcgcgggat gatggcccaa ggccagggtca gggcccaccg 240
cgcccagggt ctgctgccac agcagctcct cctgctgccg ctctctgtac ctaagttcag 300
gaatgcgatt catggcttag ttctctcacc tatgggataa tggacttttc ctgttttgaa 360
aaccaatgta c 371

<210> 33173

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C8

<400> 33173

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gggtcatctt cttacctga aactgaggta cttcatttct attagataat tgctgctaaa 120
atatggttac attattaacg tctggctggt tcgtcacgca gctaccaaca tatctatctc 180
ttctccgtga tctgcataac aaattagata atttgaatcc ttcaatcaag cctttttctta 240
gtactttctaa agcaaaatat actcctactc attgccataa gactacacaa gattttcttg 300
acaaaatcca gccactattc ttagttttta ggaagcatct ggatggagca gtttcaatga 360
tc 362

<210> 33174
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D1

 <400> 33174

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 aaacgggaaa agtaaattta aaaagggcga gccaaaccaa cctaaactca acaaccccc 120
 caacaaaa 128

<210> 33175
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-D10

 <400> 33175

 cctcncgtac tacnacttcc cncctcentat cctccccaat ggcgtggctg cctacacgt 60
 cgacaacgcc acgggcgcct ttacgggtcac gctcgacgcc ttcgctttcg gcagcgggctc 120
 ctccgtctgc gagttcttca tccagggctc ctac 154

<210> 33176
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D8

 <400> 33176

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<210> 33177
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-D9

<400> 33177

cccactcgtc cgcccacgcg tccgattaaa aatataaaaa aaaaaaaaaa aaaaacggaa 60

aatgtaaaat tttagaaaaa aaaaaaacca caaacaaaaa aaaaaagggc gcccctttta 120

aaaaatccgg gcttactttc ccattccttc aacatcatat cttttttata ggtcccctaa 180

atttaattca ctcccctaaa ttttacaacc tccctacttt aaaacccttt tctttcccca 240

acttaattcc ctttccccac attccccctt ttccaac 277

<210> 33178

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E11

<400> 33178

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aatttaaaaa aaaccaaacc caaacacaaa aaaaaaaaaa aaaaaaaaaa aacgccccct 120

ccccctaaca aaaaccagcc ttcccccttc taacattcct caactttacc ctcccttcat 180

accaacccta aattcattct tttgcccccc cttatacaaa ttcttttccc tatattcccc 240

atctttctccc cttttaaacc ctttgetacc cctacctttt ttccccctct ccctttaccc 300

catttacc 308

<210> 33179

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E12

<400> 33179

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tgttttagcca tgtgttttgc aatctgctca taacgaatgg ttttacattc taggatttct 120

attgcttgca ggtaggttac tggttgcact tgtttgtgaa tacttggagt gaccacaact 180

aagtcacaca atgaaacttt aagtgttaacc tggtgaccgg tgaccattca taatatttca 240

tttttacatt ttggatatca atatccatta atatgtttcc ctattttgtt tgtatatcag 300

ctgaacttct gatagaatga actgaaagac ttctctaaca aaagtggagc ttgagggagc 360
a 361

<210> 33180
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E2

<400> 33180

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cggactcggg ggagcaccac ttccaatcga aggccgacgc cggagcgtcc aagacctacc 120
cgcagcaggg tggcaccgtc cgtaagaacg gcttcatcgt catcaagaac cgccccctgca 180
aggttgtgga ggtttctacc tcaaagactg gtaagcatgg ccatgccaaa tgccactttg 240
ttgccataga catattcaac gggaaaaagc tcgaagatat tgttccttcg tcacacaact 300
gtgatattcc gcatgtgaac cgtactgagt accagctgat tgatata 347

<210> 33181
<211> 201
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-E3

<400> 33181

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aatcaagctg tggccgcgta aaggcatcaa ggcggtangc ttacatcaaa ctaggaaacc 120
ataagctaca ttcaaatgaa cttaatgccg ggattattct taataagaac attgctttca 180
aacaacttgg gtattttttt t 201

<210> 33182
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E6

<400> 33182

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acacaaacaa agggcattgg tcaaaattaa aaaacagagc cacacacccc accatacaaa 120
aacataacac ccaaataaac ccacctaaac ccaaccact agccaaaaat taaacaacgt 180
tcataacttg caaccccttt aaaaaaacca aattacatta cacccaacac aacccactt 240
cctcccctaa actcccactc aaacaaacac cccccggctg ccctataaaa aaattcctca 300
atcaaaaacc cc 312

<210> 33183
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-028-Q1-K1-E9

<400> 33183
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cgaagcggac ggacgactgg ggacgagacg aaggcacgga acggagggag gggagggacc 120
gagggagcca gtgagcgagc cagactaccc acctactagg tccagcggca atgaggggca 180
gcgagatgtt gaccgcctcg gggggcaccg gcacggcccc gtccacggcc tctcgtcgt 240
cggcagcggc ggcggaacctg gttgccggag cggggggctt gggcgccatc ngcgtggg 298

<210> 33184
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F10

<400> 33184
cccacgcgtc cgccacgcg tccggtcttc atgctgctca tgtggtgctg gtccgagacc 60
ttcgtcgtca gcttctacta cctccgcggc cacctccacc agacctggtc cgtgccccgc 120
tacggcttcc agtacttcct gccggcggcg aagaaggga tcaaccagca gatcgagctg 180
gccatcctgc gggccgacag gatg 204

<210> 33185

<211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F11

 <400> 33185

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 aaggataata aaacgtttga ggaagggttac cgcttacgat atacctatat atagatagtg 120
 tagtggttga gtgtgttaag tagatcgggc ccatataaag ttgcaatgta tctgcaatga 180
 gttcatctac tccgggggtgt tctccgcact tctcaagaaa gaaatagttg gaaattcccc 240
 ggatcgtctg cgcttggcctt ggtattctta tactgaatcg ctgttggata aaagaaagca 300
 taaagttttt aagcctgcgt tctcgttggc gaaaccac 338

<210> 33186
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-C7

 <400> 33186

 aggtggtgct gatcggcgac tgggcgggttg gcaagtcgca gatcctcgcg cgcttcgccc 60
 gcaacgagtt caacctcgac tccaaagcca ccatcggcgt cgagttccag acccgacccc 120
 tcgtcatcga ccacaggagc gtcaaggccc agatctggga caccgccggc caagagaggt 180
 acagagctgt gacaagtgtt tattacagag gtgcactggg agctttgctt gtctatgaca 240
 ttaccagacg ccagagcttc gatcatatac cccgctggct 280

<210> 33187
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F2

 <400> 33187

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 cggacgcgtg ggttctagat cgcga 85

<210> 33188
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-F3

<400> 33188

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cgcacgcgtc cgccacgcg tccgctgtaa aaggattggc tctgaggggtt gggctggggg 60
gttcggggcc cgaacccgtc ngctgctggc ggaatgctcg agctgctcgc gcggcgagag 120
cgggccgcgc cgtgccggcc gggggacgga ccgggaacgg cccctcggg ggccttcccc 180
gggcgtcgaa caaccgactc agaactggta cggacaagga agaaaatgat cctgagaaaa 240
tgctttcacg tggaacagaa attactcttt atttgagaga tgatgacaaa tatgagtttg 300
ctgaccctac caagattcaa ggcttagtta agaactactc gcagtttgtc tcattcccca 360
tatatacatg gcaggaaaaa tcaagaacac atgaggttga agaggaggaa agatcaaaaa 420
ggtgaagagc tactt 435
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<210> 33189
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F6

<400> 33189

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gcagaggctg cggctacagt caggccttaa caaaggccag cgtcctagta ctgatgattc 120
atcaagctgc attatagacg aaccacgaag tcagcacaaa gcagaaaaag cagagattga 180
agaagatgcg agtacaacc tcgctggaag tgctgatgat ctacctggta atatccatga 240
tgatgagcaa aagaacatcc ctgaacatgg tgctgaaatg acttctccag aagccaaatc 300
tgttctg 307
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<210> 33190
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F8

<400> 33190

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tgcagaaccc tcagctgcac gagttccaat tccacaactt tccgacttct tacctacgct 120
gagctttctca tcgtgctgca caacattatg gcttac 156

<210> 33191

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G1

<400> 33191

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atttaaaaaa ggaaaaaaaa aaaaaaaaaa aaaaaagata aaactaaaaa aaggggacg 118

<210> 33192

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-G12

<400> 33192

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tgatgggagg aagaacantg gcccgccgg tcgtacttgc gctggtgacc atcatcgcca 120
tcgcgccggc cgagggggac caggtgaagt gtggcggtg ctctccgtgc ggcggcgccg 180
actgcccggg gctgtaccg ttgccgtcct cgccaacgta ctactactac agccctaccc 240
caccgcgac ctaccccgga gagtcctcgt tatactacca gtcgccgccg gcgggcgcgt 300
acatccagat cgggagcg 318

<210> 33193

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G7

<400> 33193

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gggcgtgtgg agcatcatca cccggcccat gttccagagc atgctgagcc accgcggcga 120
cagcgggtgc cagggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt 180
ccccggcttc ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt 240
cggccagacg tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc 300
ctggggatac tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg 360
accatacag ctaactcata agtacaacta caggctcgcc gggcaagcgc 410

<210> 33194

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H12

<400> 33194

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tagtcgcgtc atcgcgcaac acggcgcgta gagcatcatc acccggccca tggtccagaa 120
catgctgaac cacaatgtct acagccggtg ccagggcgcc ttctacacct acttcgactc 180
catcgaagcc tccatcaagt tctcagctt cagcaccacc 220

<210> 33195

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H3

<400> 33195

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gtgggaatcg gtcgtctgac ttgggtatag ggactaaaga ctaatcgatc catatagtag 120
ctgtcaccct aataaggttt acttaggata gctggagcct acacgagtac tatcgggtat 180
aagccaatga ttagaggat ttggggcgca tcgcctcga cctattctca aactg 235

<210> 33196
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-H5

 <400> 33196

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 gggccccga gggacccatc ctctgcatca ataactgtgg cttcttcggc agcgcgggcga 120
 ccatgaacat gtgctctaag tgccacaaga gatgataacg aagcaggatc aggccaagct 180
 ggctgcctcc tctatcgaca gcatcgtgaa cggcagcgac gccgtcatgg agccggttgt 240
 tgctggcagc aacacggtag tagctgttgc ccaagtcgag ttgcaaaca tgaacgtgca 300
 gcagcccgct gatgttgccg gaccagcgga ggggggtggc gcgatctcca aaggggggaa 360
 ggtagggccg aaccggtgca gcgcctgcaa gaagaggggtt gggctcacgg gattcaact 419

<210> 33197
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-H6

 <400> 33197

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 cgtctcgccg tggcttgccg tgctcgggtgc ggccatgctc tccgtctggg ccatcacgct 180
 cgccatcctc ctctgtggcg acagctcaga caaccgaga ccaagataca atcctgccgt 240
 tagtgccgct atagcagctg gtggcggagg gggctgtggt ggcggggggc gtggtggtgg 300
 agggggctgt ggtggcggag gcggtggtgg agggggctgt ggcggcggcg gcggcggcgg 360
 atgctagagt tcatcgcatg catccgatgc accagcggca tcagttgtgc tggctctgcag 420
 aagctaagat g 431

<210> 33198
 <211> 187
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-H9

<400> 33198

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cttcggtgag ttgaaaataa gcatagatcc ggagattccc aaataggtca accttttgaa 120

ctgcctgctg aatccatgag caggcaagag acaacctggc gaactgaaac atcttagtag 180

ccagagg 187

<210> 33199

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-A1

<400> 33199

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catgaacata agttactatt taattagcat ggagaataga aggtggcgat catttcctta 180

gctcctgtta gtgtccctga acataagtta cccatggctc gagatgttac atctttctga 240

gctatcttct ctcggtttgt acttctgtta gtgtccctgg caccatatca ttcatttgga 300

gatattcaat cagctgtgtg gctatgtaaa 330

<210> 33200

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A10

<400> 33200

accacccggc cgcggcgctg cagatcgggc acttcaccgt ggagcctgag gagggccgccg 60

acctctcta catgaccaag tacgcctaca acagctacat gaacatgatg gacctcgcgc 120

ccggctactt cgaccgagtc ttctacgact acgaccactt caactgatcc a 171

<210> 33201
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-A11

 <400> 33201

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 ggtgaaggac tactggatcg tccgcaactc gcggggcccg aagtggggcg aggctggtta 120
 catccgtatg gagaggaacg tcaacgccag cactgggaag tgcgggatcg cgatgatggc 180
 gtectacccg acgaagaagg gcgcgaaccc tcccaggccg tctccaaccc cgccaacacc 240
 gccggctgcc cctgacaatg tctgcgacga gaacttctcg tgctccgcgg gcagcacctg 300
 ctgctgcgcg tttggcttca ggaacgtctg cttgggtctgg ggcttgttgc cttttcaggg 360
 cgccaccttg ctgtaagatt accccaactt gttgtccccg ggctattctt ttttttaaata 420
 tcataaattt taattttttt t 441

<210> 33202
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-A2

 <400> 33202

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 cgccatcttc aacaccggca ccgggatggg cttggacgcc aggccatctg cgggggctaa 120
 tgctactgct agccaagtca tcgtgtcgcc cgccactggg agtcccaccc agcagtggac 180
 gctcatgctg tgatctcatc tacggctcat gagtcatgac tgtgggggca gggcagtact 240
 gcaactgcaac agctagctgg tgtgttttgt gtatatatct ggcgagctag gttgttaaag 300
 caagcattag ctattttacc agtacaataa tgcat 335

<210> 33203
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A3

<400> 33203

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cgggcgctc ttttagaaac agggttgggg gccctccat tcaacggggt agccttttta 120
taggggccac ttaaatgaac tcatttgtcc gacgtttaaa acgtatatta ctgggaaaaa 180
ccttgattta actgacttaa tttttttaac gtccaa 216

<210> 33204

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-A7

<400> 33204

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ggcgtgcac gacatcgctt ggggggaggc cggggtcttc gcctccgtat cggccgacgg 120
ctcgtccgc gtcttcgacc ttccgggaaa ggagcactcc accatcgtct acgagagccc 180
ccgccccgac acgccgctac taaggctggc gtggaaccgc tctgacctcc gctatatggc 240
cgcgtgctc atggacagca gcgcgtcgt cgtgctcgac atacgtgcgc ccgggggtgcc 300
ggtggccgag ctgcaccggc accgggctg cgccaacgca gtcgctggg cgccgc 356

<210> 33205

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-A8

<400> 33205

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cattacacgc ggcataccct cncaccaanc cncattaata gtctccatat caaccaacca 120
attcgacccc atgttacaca cttctgcaca aaaaacaata caacatctcc tactagagct 180
cccttccta cagcaaata ctaaggctac attaaaacc ttctgacctt cactatattg 240
cctcaactat gatcgacacc atcgctgctg tcattcacia catacattct cctggggtg 299

<210> 33206
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-B9

<400> 33206

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 gatgcgccga ggtgaccgtc gtctcacgat cacnacgagt gcgggcatga atgggactca 120
 gctctatgcg gtctgatga cagtttgctt ggtggcttgg gtaattatgt tatggccttg 180
 gcagagcaac aggaaaaaaaaa agggccttaa aataagggtca tgataattat tttgtatcta 240
 ccatagtagt tgtttgatat cgacgcctct ctctctctct ctctctggta ttactttata 300
 tgtttgttac tgtcctttca tttgaatcta taggatggtc aaagtggctg atgaaagagg 360
 agaaagaaac aa 372

<210> 33207
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-C1

<400> 33207

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 acggcgcgcg ggcgtgaggc antcntgtgc tgtgcgcgag aatgggaggg gttgcaggaa 120
 gccgggacgg gagccatacg ctggggcgct tgagccgat tgctccagct tggacgcctc 180
 ctctggatag ctgatggact cgcttcctta actcaagagt tgccatgtgt cttcaagccg 240
 cctgatgag agaaccaca aggagatcca ggccaagaat gacaacgctn ggacggacat 300
 ggggctaacc ttctagagca ttgagaccat atgcagagag gtccagatca agaacgac 358

<210> 33208
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C10

<400> 33208

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aagaaaatgt ttaatttatt aaataacaaa acacaaatac acaaactcct aaaaccacaca 120
ccactctaata atttccatcc tcccgcaccc cacataacaa ccccatTTTT tttcctttt 179

<210> 33209

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C3

<400> 33209

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cgacgcccga cggcaggtgc accaggtgtt cgtcgacccc ttccgcgaggc ctcngttcca 120
tccttcgccg gaggcgaccg cccgtcaaca ggacttgatc tactactcac tagcgggtgta 180
gaggcgaaga gaagaacttg accatgagca gcataggcac aggttacgat ttgtctgtca 240
cgactttctc cccagatggt cgtgtcttcc aggtcgagta tgccaccaag gccgtcgaca 300
acagcgggac tgttggtggg atcaagtgc 329

<210> 33210

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G5

<400> 33210

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aaagggaaaa taaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa taaaaaaaaa 120
ataaataaaa aaaaataaaa tattaataaa aataaaataa atttatttta ataagttcaa 180
tttttacaac aatctttaat gaaaaaactt tatcattaac ctaatttaata ataatttaaa 240
ttaaatcccc ctttttcaaa attgattaat atggaaaaat cctgttataa cctactttta 300

taaaatttgc gtaaacttaa ttttaaaata ttataactctt tttaaaaat 349

<210> 33211

<211> 119

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C4

<400> 33211

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tcatgagtag ttgctaggtg ttgtagaccc atacatctat agactggtga gtaagggaac 119

<210> 33212

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-C5

<400> 33212

ttttatattg gagtggccag ctcaccagac agtttgaatc cctggcactc ttctacttga 60

gctgcttgat tggagagatg tacattgccac cacaggaaaa actggcattt ctgtaagccc 120

agttaatttt tgctcgcca aaaaaaatta atgcgatgtt tggtttctat g 171

<210> 33213

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-028-Q1-K1-C6

<400> 33213

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gctaataatta atatggtcga gccaatcac gattcctcat atcttattca ctttggcttg 120

accaatcctc ttaatcactt caatctctat tatgatcata tttatgcata gtgatttctc 180

aggacttgtc catatattca aaccaatata gagaccatat tatatccatt tgcattgtct 240

cactgggttat ttgacctgtg gttgagcctt gttcactgat cattatacac tattcaagta 300

tgttcatcat actgaatttc ctgttcaaca cttagcaaac ttgttagacc tttaaatgtg 360

<210> 33214

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E3

<400> 33214

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cagtatctag ccagccagcg aggagccgcc gttgcttcct agctgcacct ccgcgcgcgg 120

tctgcaggcc agtcggtctc gatccacggc cggccgaaga agaagacgcc gacgatgaag 180

gtgtcgggtgc tggcgctgtg gtcggcgggc gggcgctgc tgctggtgct ggtggcgcat 240

gcgccgtcgg cggcggaggg ctcccaccac ggcggcgcg gcctcaagct ggggtactac 300

aagaagacct gcccgggcgt cgagaacgtg gtcaagtacc acgtcgccaa ggccatcaag 360

gccaaccgcg gcgccggcgc cgcgctcgtc cgcctcatct tccacgactg cttcgtcagg 420

gggtgcgacg cg 432

<210> 33215

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E5

<400> 33215

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gacggacggt ggcggcgcaa tggtagcttt tacaggggag cctggccaag gggcgcccc 120

gccggcacc gtgcggccta tccgccacgg cgtggcgccg cccatcttcc gcatctacgt 180

ctcctggtcc agcggcaacc ttctgcaggt cgcgtgcctc cgcccgccga attcggaagg 240

tggcggcggc acggaggagg tcgttgggag tgtggtggag gtgaatctcg gcgacggtgg 300

cagcggtggc tcggaggccg aggagaaaat tgacgaggcg gagatgcgga agatcgagta 360

cgggtcagtg ccggccttcg cgctgctgca gagcaggaag aacaccctcg cagatgttgc 420

tactatgtcg cac 433

<210> 33216
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-E6

 <400> 33216

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 gagcgagcga gctcctctgc cctctgcac ctggcctccc ttctccgctg cagcaccgtc 180
 gttttctccg ttgacgactg ctcgaccagt gcgcgcgctc gcgctgccta taccttacct 240
 agccagagcg cggcgcgcga gagggagaac gaccaagagg ggaggagatc gatcgatcga 300
 tcgatcgaga tggccttcct caacatggag cagcagacct gggccttcac cttegggtatc 360
 ctaggtaaca taatctcgct gatggtgttc ctt 393

<210> 33217
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-E7

 <400> 33217

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 ccgctctacc tgctctacga cgccaccagt atcgccaacg ccagccgcgg cctagcgccg 180
 ccgccgtcgc tcttgggcga ctacggctgc ggcttcgagt tcgccactac tccgacgctt 240
 attaacggct gcggcacggc gctgcgcgcg tgcgccagcg acgtgtctgc ggcggtcttc 300
 gcgggcgagc tgttcccgtg gagcctgccg ccgctgctgc atcggtgcc cgttcgctcg 360
 gctggagcc 369

<210> 33218
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E9

<400> 33218

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ccttcacact gaactgaaag aagcgatagt ccagggttaga tccttaaaat ctgtttatga 120
ttttctcagta aaccattgat tttgtccatg tatatgttat ttgtcacaat atttacgtca 180
ctttatgtcc aagtgataat atctgcaagt taatagtccc tccattccaa attgtaagtc 240
attttgacat ttgtagcacc cagatatatg tatttttggg taacatagta aaaaactatg 300
tatctagatt gaaaagctag aacaacttgc aatatagaac agatggagga ctaactcggt 360
caattgtgta cattatgtaa gtactgcaat gtaattaatc tcttctatgc tattacggat 420
acatgtcata catt 434

<210> 33219

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-027-Q1-K1-F11

<400> 33219

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cggcatattc aaaattatta gctacagttg ttcttgcatt cgccagattc tcatgtgaga 120
tgataaaaaac gtcataatta tttgctaagt ttaatgacct acgtcagttt ctgcgtacta 180
aaaactattc gctagttgag tcgttcgggc atattcaaaa ttattagcta cagttgttcc 240
tgcatgcgtc taatgtcctt cgggtgaactt gtctgtcatt atcatttaaa aacgtatcta 300
gatgcattat ggaagatttt tagtttcctt tggtatattt gagaagttat atattgtata 360
taccgagaga tgcacctgtg tattatttgt tgtagcttcg aatgcgagac gtatgggtgc 420
agtcattnta ttgtagtta 439

<210> 33220

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F12

<400> 33220

cccactcgtc cgaaaaaaaa aaaaatattt aaaaaaaaaa aaaaaaaata aaaacaggag 60
ggacaaatcc ataaaaatat aaatacacac taatatacaa aaaaactaat ctaccatact 120
ctatattgcc tattcttaac ttgtcttggc tcaccacagt cttctt 166

<210> 33221

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F2

<400> 33221

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cggettcgcc attcgctcc ggtgccacg agctacgctt cctcctcttc gtacgctccg 120
tctcatgacg tgaaagagta taaactgtca tgactgacag gcttctcacg aatctaattct 180
tcatgtgctg aaccgtcgat cgacaggcca tgctgcaagc ctacccccat gccatcatca 240
atgcatacaa aactggaact gcccaagaag ctataacatg gtattagact gactaacaat 300
gccatgac 308

<210> 33222

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F4

<400> 33222

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accgcgcc gcacagcca tcagccatgg cgctggccgc tcgcctcgtc tcacgctccc 120
gtcagctaca ttcggttcaa gcagcttttg cgaatggagg tgtcactcaa gttegtctct 180
ttgccaagga tgcagctcca gctgaccgtc ctctgttag tggggatgat ctctgaagg 240
gcatattctt tgaggtaaag aagaagtttg agacagctct tggcgtcctt aaaaaggaaa 300
agatcactat tgatccagac gaccagcgg cagtttctca atatgcccga gtcatgaaga 360
ctgtaaggga aaaagcggat cttctttctg attctcaaag gattaaatat accattgaga 420

cctttaccag gggca

435

<210> 33223

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F7

<400> 33223

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tgcttgtctc gtttactctt ttttttttcg tgtccccatt cttcttcgta gctttcactt 120

ttattttttt ttttttgttt ttctgggtga cggattattc cgttggggga cgacgaggtc 180

gggatttaaa tttgtttcct cgcttgcttg atcgtggaga tccatctata atctatcatc 240

gtcaatcata agccatgttt tgtctgcaag aaaaaaaaaat aaaataaata caaatattaa 300

aaataacatt taatgctatt tatttta 327

<210> 33224

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F8

<400> 33224

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gctgtatcaa gggcatcca agaagcagct cagaaggaag ctgctcttgc aaggaggagg 120

caagagaagg ccatggctct tggagctgaa cctgagaaag gaccacgtgt tactcgggtt 180

ctcataagat tcccaactgg agagcgcaca gagcggagat tctacagttc tgcaaccgtc 240

gctttcctct atgactatgt cgattctcta gactgcatga aagcgcagaa gtacacccta 300

gtttcgaatt ttccacgctg tacatatggt ccagaaaagc aatccctgac gcttgaagaa 360

gcaagcttgc a 371

<210> 33225

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-F9

<400> 33225

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gggtcccggc gtgcttatcc gccccgccg gccatgtcga agcaaggagg gaaggccaag 120
ccgctgaagg cgccaaggc cgacaagaag gagtacgacg agacggatct tgcatactctg 180
cagaagaaga aagatgagga aaaagcactg aaggagctta aggccaaggc acagaagggc 240
gcgattgggg gctcgggtct gaagaaaagt ggaaagaaat gagactggtc acccgtctcc 300
aatacctaga ggatgataag gcagctgtct atctgtgttg cgcttcacta agtgtgattg 360
taacagtggg acctcttggt ttctgtgttc cgcgatgttg cagttgggtg cttgatcgaa 420
aaaaaaaaa aaaaaaggcg gccg 444

<210> 33226

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G1

<400> 33226

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cggaggaaga agcccgaacc aattaagcaa ttgaatccaa aatttgaaga gaactacatc 120
aagggtcttg attatgatcc tgatcgagaa agggcacaaa tgaagaagct gcggaagcgt 180
gtcaagagtg agatgaaggg ggcgaagcgt gagctgcaaa aggataatta tttcctgtct 240
gctgtgaagg agaaagagag gaggaagcga gatgaagaga gagctgagat gtatggaaaa 300
gccatggcgt tccttcaaga acaggaaagt gctttcaa atctggacagct ggggaaagga 360
aagggtagga aaaggatgcg gtgatactct attgcagggg ggcagctcgg ccagtgtaaa 420
tatacgggat t 431

<210> 33227

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G10

<400> 33227

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ccggccgtgc gtctctcttc ctctgtgcgt tcgcccgtct ccacagttgg tgcagaaaca 120

gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atgggtctact 180

gccgccgtgc tctctcacta ccagtgtccc accaccgtca tgcattgttt gcggcaattg 240

ccggctacta tactccttcg tctccaatca tcaggcacca gcttgcgacg caacttggat 300

tctctctctt cctctcctct cgttgcaaca aggcagtcca atgaatg 347

<210> 33228

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G2

<400> 33228

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gggttagtct cttattagct ctaggctcta gctagccgag ccaactccttc gtgtagccat 120

cagccttctc atcgccacca atggccactg ccgaggtcca gaccccgacc gtctgtggcg 180

ccgaggaagc gcccggtggtg gagaccccg cgcgggccgt cgtgcccagag gagtctgccc 240

ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccagag gagcttcccc 300

cggccgagca gcatgcagcc gccgaggcgg aggccgcggc tcctgctggt gccgaggagc 360

ccgtcgcggc cgaaccggcc gacgaggctg aggctgctgc tcctgctggt cccgaggaga 420

ctcctgcggt cga 433

<210> 33229

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-G3

<400> 33229

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tcacccgtgg tatgtcatta cctttagggc ctacctattc ccacttatca taagcataac 120

cctcagactt atcatctaca cccacaccca cacacgatct acaaacacat accgtcaata 180
 ctgacc 186

<210> 33230
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-G4
 <400> 33230

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 tctgataccc aattcctcgc acaaacctgc cacacgcaat gtccaagacc gagagcagga 180
 agctgtcgga cgactatgag gttgcgaggg tcctcggccg aggcggattc tcgatcgtga 240
 ggcggngagt gagcaagtca gaggggaagg cggcccaaca ggtcgccata aagaccctgc 300
 gaaagctggg cccggccacc acgaccggcg ggagcacgcc gtcgcagcaa gggtcaaata 359

<210> 33231
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-E2
 <400> 33231

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 cactatcggg agtgggcatt ctgtatatca gaaatgcac aagtacatgt cagcatgcat 120
 ctgccattgg gagctaccaa aaatcatttc ttgcccattg tctcagagac aaaagagtac 180
 tgatcctggg cttagctcaa gcaagcatcc attttgctgt ctcagccttt tggtttctct 240
 gggcaccaac catagtggct gacggaagggt atgctcaact gtcagtaatc taccctgtt 300
 tcttggcatc aaggatgctt ggaagtgctg gttttccatg gttttacgga gccatagccc 360
 ccttncggaa cgaggacagc ttgacaatag cttacgttgg tgc 403

<210> 33232
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-B8

 <400> 33232

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 gggctctcgc cgcattgcctg ctctctctgc ccaccgcctc ggctcgccacc gacgtcgact 120
 actgcagtaa gaaggactac ccggtgaagg tgagcggggg gcagatcgtg cccgatccgg 180
 tcgaaccggg caagcccgcc actttcaaga tctccgcttc tactgataaa accatcgaga 240
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 acatctgcgg agagacttcc tgcccagcga cgggcgactt cgtgctgtcc caccagcaga 360
 cgctgccagg cttcactccg ncgggctcct acacgatcta catgaaagat gtccgggacg 420
 ac 422

<210> 33233
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-B9

 <400> 33233

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 gtatggttgt gaatttgtca atttatactt aggcccgttt gttttgttgg aattgaattc 120
 cattataata atcataattt agacaaacta attaagttaa tatatttata tatttaatat 180
 attagtatat tctcctgaat catatgagag atatagttat acgctacacg tatgctatag 240
 agaagtaagt ataagagtgt gctataagtt gtatattaga aaagtagcat gtaaatttat 300
 agaaccaatt tttatctctc accctatgaa tttgagatag acttatatat aaactttgaa 360
 aagttatgga atgtcacatt ctaaaaaata gcctactcca ttagttagat tccaattctt 420
 cgaaatgaag aaacaaa 437

<210> 33234

<211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-C1

 <400> 33234

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 agaagtcctc gctgccggcc gccgcaccgg cccctccgcc ggcggagggc gctgcggata 180
 cggaggcatg tcccccgctg cccggaacca taaccctagc cgctgccacc gctgctgcgg 240
 cgggtggtttc ggagacggag tccagcagca gcggcgaggc ctgcacgtgt ccatccgcct 300
 gcttcaccgc aagctcgtct gggaccgcgt cctcgactc cttctctgcc ttgtcctcgt 360
 cggcgtccac agcttcgtcg tcggccgccc gcgaggagcg gcg 403

<210> 33235
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-C10

 <400> 33235

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 cgcttcata cttcaatcta attgcacttt agtgtcacct attttaaag gaataacctt 180
 ggaattacac aacttaaccg cggttaaac catttgcaac acatccaaat tgcgtcatat 240
 cgcataggcc tttagagatc tggcttaata a 271

<210> 33236
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-027-Q1-K1-C12

 <400> 33236

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cagcgaggac gagatcctgg agtcggccaa cgtcagggcc ttcagcttca acgagctgag 120
gaccgccacc aggaacttca ggccggacag cgtgctgggc gagggcgggt tcggttccgt 180
cttcaagggc tgggtcgacg agaagacgt cgtcccggt aggcccgga cggggatggt 240
cattgccgtc aagaagctca accaggatgg ataccagggc cacaaggagt ggctgactga 300
agtgaactac cttggaacgc tgcgcaccc ctaccttggt aagctcggtg gctactgcct 360
cgaggacgaa cagcgctnc tcgtctacga gttcatgcca cgtgggagtc tggagaacca 420
tctgttcagg aggagctcct a 441

<210> 33237
<211> 431
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-027-Q1-K1-C4
<400> 33237

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gcggaaggaa aggggtaatg ggtatcgatg ccgaagtatt tgaggtagc cccaacttcc 120
atcttggtga gataaagaag acgaatggcg acactctaga gtatcaaaag gtcctgaacc 180
aagaaatgag gcccgactc aaggaaatag tgtgggcttg gcaagggtgag caatcaaagc 240
aaaagcagga acaacagtcg tgtaaaaaac ttatgagcta gtgcaatggt ttagccaat 300
ttccaatctt tcgtgtattt gtgtagtttt tactctntta ttatccattt ttgttttccc 360
gtgtaatacc aacaaaaact tgtgtagttg tgttattttc tgaggacaaa tttgtttcaa 420
agatgtgttt a 431

<210> 33238
<211> 268
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-027-Q1-K1-C6
<400> 33238

gtcgatggtg atggaggagc ctctttaatc gctgaagtct tcattgtgcg tgtgtagctg 60

agattctttc atttctccat cctgagttct ttacctctct tctatctata gttctattca 120
taggcattca tgaaaatttt accgagagaa aagataggaa gggagggttta attctggccc 180
tatgggtgtg gaagcttttg tgatgttagt tcgatatctt acaagttgta aataacatgc 240
aataatagca cgtaatttgt gaatattt 268

<210> 33239

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C9

<400> 33239

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tccatcataa acgagcaatg tctattgata ccgaaatata tcatgttaat cacaattacc 120
catattgtac ctcatctaga atactaatat ctacactctt 160

<210> 33240

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-027-Q1-K1-D1

<400> 33240

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agttgtaagc ttacactcca gccatgggta aagagaagtc ccacatcaac attgtgggta 120
ttggccatgt cgactctggc aagtcaacca cactggcca cctgatctac aagcttggag 180
gcattgacaa gcgtgtgatt gagagggttcg agaaggaagc cgctgaaatg aacaaacggt 240
ccttcaagta cgctgggtg cttgacaagc tcaaggctga gcgtgagaga ggtatcacca 300
ttgatattgc tctgtggaag tttgagacca ccaagtacta ctgcactgtc attgatgccc 360
ctggacatcg cgacttcac aagaacatga tcatgggtac ctncaggct gactgtgctg 420
tctgatcat tgactccac 439

<210> 33241

<211> 54

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-D10
 <400> 33241
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<210> 33242
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-D11
 <400> 33242
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 tgaaaaaaaa aaaaaaaaaa taatacaaca accattctaa aaataccctt ctttcgtact 120
 caaatctaca acatcttaaa ttttcctatt gaacctccta tctttaatat cccgacctac 180
 gttctacaac atcttaacta caacttcctt ttccttcccc cacatattct tctttcagtt 240
 catccttttt acgaacactg tattaataac ctataattcc ccaa 284

<210> 33243
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-D2
 <400> 33243
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 aggggtaagc ttaccttca gccgtgggta atgagaagtc ccacatgaac attgtgggta 120
 ttggccatgt cgactctggc aagtcaacca ccactggcca cctgatctac aagcttggag 180
 gcattgacaa gcgtgtgatt gagagggttcg agaaggaagc cgctgaaatg aacaaacggt 240
 ccttcaagtt ctctgggtg cttgacaagc tcaaggctaa gcgtgagaga ggtatcacca 300
 ttgatattgc tctgtg 316

<210> 33244
 <211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D7

 <400> 33244

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 cagtctgagt ctgtcaagga tgccatctcc cagattgttg gggatgccaa ggagaagaat 120
 aggaagttca ctgagactgt ggaacttcag attggtctga agaattatga tccacagaag 180
 gacaageggt tcagtggctc tggttaagttg ccccatatcc ctcgccccaa gatgaagggtg 240
 tgcattgcttg gtgatgccca gcatgttgag gaagccgaga agatgggact tgactacatg 300
 gatgttgagg ctctcaagaa aatgaacaag aacaagaagc ttgttaagag gcttgccaag 360
 aagtaccatg ctttcttggc atcagaggcc atcatcaagc agattccccg tctccttggg 420
 cctgggtc 427

<210> 33245
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-D8

 <400> 33245

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 gcgggggagg aggaggacac gggcgcccag gtggctccca tcgtgcgggt tgaggaggta 180
 gccgtcacca ccggcgagga ggacgaggac gtcctgtctg acatgaaggc gaagctgtac 240
 cgattcgaca aagacggtaa ccaatggaag gaacggggca cgggcgctgt caagcttttc 300
 aagcacaagc agaccggcaa ggtccgccta gtcattgcgc aagctaaaac gcttaagatc 360
 tgcgcgaacc acctcgtggc cttcaacacg aagattcagg agcatgcggg cagcgacaag 420
 tcgtgtgttt ggca 434

<210> 33246
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-D9

<400> 33246

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gaacctctcg tctgctgcct gcctgcctgc ctgcctgcaa aaaggagttt gtcattggcgt 120
ctaagegcat cctcaaggag ctgaaggacc tgcagaaaga cccccccaca tcatgcagtg 180
caggtcctgc tggtagggac atgtttcatt ggcaagcaac aattatggga ccacctgaca 240
gtccctatgc tggtaggtgt ttcttagtga acattcattt cccgccagat tacccttca 300
aacctccaaa ggtttctttc aagacaaagg tcttccatcc taatatcaac agcaatggaa 360
gtatatgcct tgacattctc aaagagcagt ggagccctgc ttgacaatt tctaagggtcc 420
tgctctccat ctgct 435

<210> 33247

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E1

<400> 33247

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ggttctcttg gctcaatgtc gcgtctgtcg catctattca tgtataatcc agaaatggag 120
gatggcaatg acgaggactc aggagaggag gcggccattg aagaaccagt tggttctctt 180
ggcgcaatgg cgcctctatt catgtatgat caagaaatgg aggacaacga ggaggatcag 240
gcacactaga tgcagattgc accagctgca gcgaagcctt tgttttgtgt tgctggggcg 300
gctctattta tgtaatgtgg aatggagggg ttgcgcaagc ttaaaagtat ggctggatcg 360
gccttgtttt ttaactgggt ctctagttac tgccatctaa tagccaacat ttttcccgct 420
tttg 424

<210> 33248

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B11

<400> 33248
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 gtcttttaat taaatccctg atgcacagtc atgtattgat ctggtttggt gttcctagat 120
 gcgtgtaata aatggggaaa aaccatgtcg taataaaatc aattttatttt taatgaaaat 180
 aatacatagc cggattactt ctctaattctt acgatttctg gtctatttct tattaacga 240
 ataaggctcg aatcaaggtc agagccggag atgtgcatgg gtgcatctca tatggcacat 300
 cgcagacaaa agattgcata gttgggtccg atcctatttg gcaagtgaat cagagatggc 360
 aatggcccaa tgggctcgga tcctatttgg ctagtgatta gagatggcaa tgcccaatgg 420
 gtaccgcga tccgatactt t 441

<210> 33249
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-E11

<400> 33249
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 cccctctctg cactatccac ggtagccacg gccacccgag gctgatccca gggctcccgg 120
 atgaggctctc tctgcagatc ctgcgcgagga tgccgcggat ggggtacctc aaggccaaga 180
 tggctctcgcg gagctggaag gcggcgggtga ccggcgcgga gctgtaccgg ctgaggaagg 240
 agctcggcgt ggccgaagag tggctgtaca tactgacgaa ggccggcgga ggtgggcaga 300
 agctggtctg gcacgctctc gatccggtta gcaaccaatg gcagaggctg ccgctcatgc 360
 ctgggatcga gtgcaggagt ggccgctgt acgggctggg cttgcgggac ctggtgagcg 420
 ccggcgtagg tatcttcgac gt 442

<210> 33250
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-H11

<400> 33250

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ggtgtctcct ctctttccat tgccacagtc ggccttctcc gtggaagccg gcggggccgcc 120

gcctcctttg tccctgtcgt cgtgctcttc cgtaccgcca ttccctagca ctgtccacgg 180

gcgagatctc gcgtgtacgg tgtacctcgt ttccctcggc ggggtggatca gtgacggctt 240

ggtcgagatg gacgatgtgg ttgatgacat catctgtgga acggatgcgg cggttgccgt 300

cgaggatggg gccagtggga cgcccgaat gcctagctta tggtgccagg gtgaggaaga 360

gcataggaag ggcaatgagg acaactcang tgagagcgag gtgattaac 409

<210> 33251

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H12

<400> 33251

acccttcttc cgcgaccca gcatcccgt cacttactac aacatgctgt actcctatat 60

cgaccgcca ttcgctatca ctatcgacat gcgacacag gactttaccg tgcacgatct 120

cttacaccgg atggccgac agtgactact aggacgagac cgacgacag gttcataaca 180

tcctctgtta caacgataac ctcatcaca gggtcgacat gagccagtgg ga 232

<210> 33252

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H2

<400> 33252

tgcaccggc accgagtacg ggccctacct ccagaacgaa ccttcaccct tgcacacaac 60

gagaattgtg gagaagtgca ctcttaaact agtcgatgag tacaagcaca tgctgtgcca 120

ggccactgaa ccactatcta cgtttttgca gtatataact tatggccaca tgattgacaa 180

tgttgctcctt attgtaactg ggacactgca tgagagagat gttaacgaac ttttgagaa 240

atgccacca ttgggcatgt ttgacagcat tgcatactt gctgttgctc aaaacatgcg 300

tgagctttat agattggttc tagtcgatac accactggcc ccttacttct cagagtgcac 360
 tacatctgaa gatctggatg acatgaatat tgagattatg 400

<210> 33253
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H3

<400> 33253

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 gacgacattc atatgtcat gcagtactga tattataata taaccatata catatccaaa 120
 agtcatacca tcaagctaca tgaacggcga ataataaac aaaacacttg ggaataaggt 180
 aattgagcta tatcatatgt agagctatag ctggcttgat gaa 223

<210> 33254
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H4

<400> 33254

cccacgcgtc cggcttctac gagaggatat agagaggaag aacagctcgt ccgagaccat 60
 gaagagcagc ccacacctgg tgctgacatc gtgcctccag gccgctctgg tcatgggcgt 120
 cttcgccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg acatcaaccc 180
 ggggcagctc aagtgtgca ccaactgcaa cttctcctc tcggggctct acacctgcca 240
 cgacgtcaaa aaggactgag acccgtctg caagaagtgc gtcgtcgccg tgcacgcctt 300
 ctactcgggc aacaacaagt tcaggtgcac cgacatcttc ctcgcatgt gcggccccaa 360
 gtgctagatc agagagggag aacgcgcgct 390

<210> 33255
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H6

<400> 33255

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gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 120
tcgtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccga 180
ccgtcgtggc gaccgaggaa gcgcccgtgg tggagacccc ggctccgccc gccgtcgtgc 240
ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
ccgagccagc tgccgcccgt gagcccaggc cgccccccgt ggcggcggat gaagagacgc 360
caaaggagga agagacggca aaagatgcgg agccg 395

<210> 33256
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-026-Q1-K1-H8

<400> 33256

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atcgtagctg agccccggccg agcgagagcg agggagaggc atggctgctc cgaagctcgc 120
gacgctggcg ctggccgtgc tcctggcggc gaccgtggtg gctcccccg ccgcggtgcg 180
cgcgggcgatg tcgtgttcca ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca 240
gatgggcggg gccatgccgc cccagccgtg ctgcgggcggc atccgcagcc tgctgcagca 300
ggccaacaac accctcgacc gccgcacat ctgcggtgc ctcaagaacg tcgncaacgg 360
cgccaacggg agcggcacct aca 383

<210> 33257
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-H9

<400> 33257

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gaagagcatg cccacacctg gtgctgatcc tgtgcctcca ggccgatctg gtcatgggcg 120

tcttcgccgc tttggctaaa gaaaatgccc tgattgagag caaggccatc gacatcaacc 180
 cggggcagct caagtgtctgc accaactgca acttctgctt ctcagggtc tacacctgcg 240
 acgacgtcaa ataggactgc gaccccgctt gcaagaagtg cgtcgtcgcc gtgcacgcct 300
 cctactcggg caacaacaag ttcagggtgca cgcacatctt gtcggcatg tgcggaccca 360
 agtgctagat cagagaagaa gaacgcgcgc tgctgctagc tgctatagc 409

<210> 33258

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A10

<400> 33258

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 tgggtggcgg gatgtcgacg ccggcgagga agcgctgat gcgggacttc aagcgcttc 180
 agcaggaccc gcccgccggc atcagcggcg cgcctacga caacaatc atgctctgga 240
 acgcccgtcat attcgggccg gatgacacgc cgtgggatgg aggcacgttc aagctgactc 300
 tgcaatttat agaagattac cccaacaaac ctccaactgt tcggtttggt tcgaggatgt 360
 ttcattcaaa catctatgcg gatggaagca tctgtttgga catcctacaa aaccagtgga 420
 gccctatata tgatgttgcg gcaatat 447

<210> 33259

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-A11

<400> 33259

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 aaaaaaaga aatatataaa caacc 85

<210> 33260

<211> 329

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-A12

 <400> 33260

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 aaccttatat ttatttcata gcccaacctt attcaaattc actaccgta taaaccacaa 180
 cttttcaaca cttaaaacct ttactttaca taacttattc accttgtaac acattcccct 240
 ttgcgccctt tacttattac cttccaggcc cttacccttc gccatttcca acattatctc 300
 accctttatt gtcaacatta accccctt 329

<210> 33261
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-A2

 <400> 33261

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 gagagctgcg tcaagctgcg ctagcctcct agcacaagc aggtgctact ccgtggccgc 180
 ggtcgtggtg aagggatgcg ggcggaaggc cgtggagaaa gtggccaagc gcatcatggg 240
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 caccggctac taccgtccgg cgggtggcgc caaggaagtg gacgcggcgg agcttcgcgc 360
 caggctgctc accaagagga tcgccaacta aatcaatcta gcagcagagc agtgccggctg 420
 agattattt 429

<210> 33262
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-027-Q1-K1-A3

 <400> 33262

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 agcagatgat ttgctgctgc aacaagatgg atgcaaccac tccgaaatac tccaaggcac 120
 gttatgatga gattgtgaag gaagtctcat cctacctcaa gaaagttggg tacaaccctg 180
 ataagattgc cttcgttccc atttctgggtt ttgagggcga caacatgatt gagaggtcca 240
 ccaaccttga ctggtacaaa ggcccaaccc tgcttgaggc tcttgaccag atcaccgagc 300
 ccaagaggcc ttcggacaag cccctgcgtc tgccctcca ggatgtgtac aagattgggtg 360
 gtattggaac tgtaccggtt ggtcgtgtgg agactgggtg catcaaacct ggtatggtag 420
 tc 422

<210> 33263
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A8
 <400> 33263

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 tggcgggtga agctcctgtg ttgtgacgta ctaatgtatc gatactactt acaccttcat 120
 ctaaaggcac tcgccgtttc tgggacgcta agaaattcag tttttatgga gtcattgaca 180
 attctgctgg aggagatgtg ctgggtatcg cttgtttgat ggggtctaaa acaaggtttg 240
 agattggaca atattatgca ttaacaatat tgcattctga taatgcatta tattaaaagg 300
 acccaaggca atctattgag ccacaattat gtgctcatac aaagcaagga gacacaagtt 360
 ctgaggagaa atatggggag gagatgggtt ggcattcatg accaaacttc gattggcagc 420
 atga 424

<210> 33264
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-027-Q1-K1-A9
 <400> 33264

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gtcaatataa atatgctaata gcaacaaaaa aaaaatcaaa cactccaaaa tattttcaata 120
 ttcttgatct tcatattggt aatctagtct catactacac tcttaaattt acttacaatc 180
 cttataagat taactttctt acaattttctt gctttgaaaa ccacatcatt attcaaaatt 240
 acaccaatct ttactcatc aaattttccaa ccctgcttta 280

<210> 33265
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B1

<400> 33265

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 aagctgcggc tgcgggtcaa gctgcaagtgc cggcaagaag taccctgacc tggaggagac 120
 gagcacccgc gcgcaggcca ccgtcgtact cggcgtggcc ccggagaaca aggcgcgcga 180
 cgagttcggt gaggccgcag cggagtcagg cgaggacggc cacggctgca gctgctgtgg 240
 caactgcaag tgcgaccctt gcaactgctg atcacatcga tcgacgacca tggatatgat 300
 tattatctat ctagcttcgg gtggtggttg aacaataata agcgaggccg aactggctga 360
 catacatagg tattgtgtgg tgtg 384

<210> 33266
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-B10

<400> 33266

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 gaagacagct tcagggtcaa tgttggtatct tatcactacc cacgagggtg aaaaggatct 120
 aactaaatat aacttgacag ttcaccgccg catcgttcag tacaagacag cttattattc 180
 attctacctt cctgttgcat gtgcattgct gctggctggc gagaacttgg aaaactttgt 240
 tgatgtaaag aacattctcg ttgaaatggg aacatacttt caagttcagg atgactatct 300
 agattgtttt ggtgatcctg aattcattgg caagatcgga actgacattg aagactacaa 360

atgttcctgg ctagttgtgc aagctcttga gcgtgctgct gagaaccaa agagcattct 420
gtttgaaaat 430

<210> 33267
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-026-Q1-K1-H1

<400> 33267

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gcgcaggaac aataatgaca ttgtcctcat ggtctacttc cagcgttgaa gaggtcaact 120
cagttggggc gggcatacgt ttcttccagc tctatgtcta caaggacagg aatatcgtac 180
ggcaactcgt gaaaagggct gagatggctg gcttcaaggc cattgcactc acggtagaca 240
ctccaatact tggccgcagg gaagctgaca ttaagaacag gttcgcctta ccttcacatc 300
tgggtgttgaa aaacttccaa gcgctggatc ttggcacgat ggacaagaca aatgattccg 360
gccttgcttn ctacgttgct ggtc 384

<210> 33268
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E10

<400> 33268

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gttgctgtgc ttggtagcag cgatgggtgc aagggcacca tctttttcac ccaagtggga 180
gatggcccta ccaactgtcac cggaagtgtc tctggcctca agcctggcct ccatggggtt 240
catgtgcatg cgcttgggtga caccaccaat ggctgcatgt caactggacc aactacaat 300
cctgcgagca aggaacatgg agcaccagaa gatgagaacc gccatgccgg tgatcttgga 360
aatgtgacag ctggagcaga tgggtgttgca aacattaatg ttaccgacag ccagatccca 420

ctgactgggc caaactcaat ca 442

<210> 33269

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E12

<400> 33269

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gggcgatata aa 72

<210> 33270

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E5

<400> 33270

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tgagggttcgc tttccgggtt catcagtttg ctggggggtt tgatgcagaa agcatgaaag 180

cttttgaaga gctaagaagc aagatgacca cacaggcatc tgctccacca atatctcaag 240

gctgaagcat aaattgagca caggattcag cacacatctg gtcttacttg ctggagagtg 300

attttttagtt gtgtatatta agtgtacaga ctacagaaga gagattcaaa ttccgggtgtt 360

gtgtcaagca agttgtatat gccaaagataa tacaagtcag gtttgttcat ttgtataaca 420

gttttagctc aagcataaca c 441

<210> 33271

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E7

<400> 33271

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gcgcgcgcta tgctgaggct gctaacttag caccgccta gacgtttccc ttttctctgg 120
 tggattacgg actggatcgg accaaagatc gatccagctc ctagtactaa taatatagtt 180
 gtacttgaga aaatgaataa ttgtaattta ttgttttttt gggacctt 228

<210> 33272
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E8

<400> 33272

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 cgaccttcac gccagtctcg gtctcttccg aaggcgtcgc gcgcggttgt ttgagaggag 180
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 aacgcgtgct gggaacttta ctgcctcgag cacggcatcc agcctgatgg ccaagtgcct 300
 ggagataaga ccgcgggaca tcacgatgat gccttcagca ccttcttcag ccagactggt 360
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<210> 33273
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F10

<400> 33273

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<210> 33274
 <211> 55
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F11

<400> 33274

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<210> 33275
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F12

<400> 33275

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cgatgctctc gtcggacttt gccaacctcg ctteggaggg tgagcgcatg gtccgcctag  180
gcgccgactg gctacatatg gacatcatgg atgggcactt cgttcctaac ctgactattg  240
gggctccggg gatccagagc ttgaggaaac ataccaaagc atatttggac tgccatctta  300
tggtcacaaa gccttcagat tacgtagaac catttggaag ggctggcgct tctggattca  360
cattccatat agaagttgct agagacaact ggcaagatct catccaaagc attaaatc   418
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<210> 33276
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 33276

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cggcgaggcg gccaaagctcg cccgctacaa caagaagccc accatcacct cccgggagat  180
ccagacctcc gtccgcctcg ttctaccocg cgagctcgcc aagcacgcgc tctcggaggg  240
caccaaggcc gtcaccaagt tcacctcgtc ctaagctcct ttcgagtagg tccttaagcg  300
ccgtggcgcc ttttgactgt atggaatgtt tgtcatctga aaaagtgatc tgagcagntg  360
catatataan tcttgcatac tattct                                     386
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<210> 33277
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F7

<400> 33277

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agctcgccgg cgaggcggtc aagctcgccc gctacaacaa gaagcccacc atcaccttcc 180
gggagatcca gacctccgtc cgcctcgttc tacccggcga gctcgccaag cagcccgctct 240
cggaaggcac caaagccgtc accaagttca cctcgtccta agtccttttc gagtatgtcc 300
ttaagcgccg tggcgccctt tgactgtatg gaatggttgg catctgaaag ttgatctgaa 360
cagtgaatc tataattctg gcatactatt c 391

<210> 33278

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F8

<400> 33278

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tctagaagct cgccggctag gcggccaaac tcgcccgtca caacaagaat cccaccatca 180
ccttctgca gatccagacc tccgttcacc tcgttctacc ctgctagctc tocaagcac 239

<210> 33279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G1

<400> 33279

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tcgcccgcgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180
cccagaaaaa aggggaaaac aaatacgct gtatctttat cttcacatgg tattggttta 240

ccatgcatgt acatttaaaa atatTTTTcc ccgaaacgga atagaacagc tgcgtgcttg 300
 ttacacatc aaaaaaaaaa attacttgat tattttatta ataaaattt 349

<210> 33280

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G12

<400> 33280

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 aactgcgctt ccgcgccgcg cgcctctgca cccgccccgc ccggagaatt tgttgccaat 180
 ctatcaactc agctaattgt ttgggagctt cttcaacgac atctgatgaa gcagtcccag 240
 tcccagttgt ccagatagat caagactcag accgcgatgc gaccattgtg cagctaagtt 300
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<210> 33281

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G2

<400> 33281

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 tcgcccgcgc cagagaggag tgtattgcca tgacgttttg atcttttttt accccctccc 180
 cccagaaaaa aggggaaaac aaatacgcgt gtatctttat cttcacatgg tattggttta 240
 ccatgcatgt acatttaaaa atatTTTTcc ccgaaacgga atataacagc tgcgtgcttg 300
 ttacacatc atataataat tgtttgtttt catatTTTTT a 341

<210> 33282

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations
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cgaggtcgcg ggagctaccg ccaaacggtg tgccggcact ggcttcgcgg cctctgcatg 180
aagggcgagg cctgcggatt cctgcaccag ttcgacaagg cccgcatgcc cgtctgccgc 240
ttcttccgcg acttcggcga gtgccgcgag cccgactgcy cgtacaagca ctcgtaagac 300
gacgtcaagg agtgcaacat gtacaagatg ggtttttggc ccaatgggtcc taattggcgg 360
tataagcata tcaaagctcc tggngccacc gcttctggtg aggaagttct tcaaaagatt 420
ttgcagatgc gctcttttaa cagata 446

<210> 33283
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G7

<400> 33283

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ccgtctcccg gccgggcgcy cgtgtcgttc cgcgcggcgc cggcgccggc gcggcggtcc 180
gtggcggcgc gcgcggagct gagctcggcg ctggtgatca gcctgagcac gggcgtgtcg 240
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cccgcgcaga acggcaagac gcacttcgac gccggcgacg agcgcgccaa ggagttcgcy 360
gccctgctca agtccaacga ccccggtggc ttcaacctcg tcgacgtcct cgcttggggc 420
tcgctcggcc acatcgtcgc ctactacat 449

<210> 33284
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-G9

<400> 33284

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ccgtcctcgg cgccgtggtg atcgcgtcgc tctcctcgcg ggctgagagc cgccacattg 180
cccgaaaaga cctgggcgtc ggccttgggtg ggggcggcag cggcggcggt ggcggcagcc 240
tcggtgtcgg cacgggtggt ggcgtcgggg ttggtacagg cggcggactt ggggttggca 300
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<210> 33285

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D9

<400> 33285

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cacaagaagg acgaggagca ggccgcggcc ggcgggtacg gcgagtccgc cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgccggc 300
gccttcgcac tctacgagaa gcacgaggcg aagaaggacc cggagcacgc gcaccgtcac 360
aagatcgagg aggaagtcgc ggcggcgggc gccgtcggct ccggcgggtt cgccttccac 420
gagcaccacg agaagaaga 439

<210> 33286

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B5

<400> 33286

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cgagggtgcca gcgagggtcc cggcggtccca ggtggccgag gcgccaagg cgaagaaggc 120
 gcccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
 gcacctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaagg agaggaaggg 240
 gtcgagctcg gtggccatca gcaagtacgt cgagggggag ccatgccgca aagctcccaa 300
 caacttt 307

<210> 33287
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B6

<400> 33287

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 gcccaaggag aagaaggcgc ctaaggagaa gaagctttcc gcggcgaaga agccggcggc 180
 gcacctccc tacgtgaga tgattgtaga ggcgatcgct gccctcaatg agaggtaggg 240
 gtcgagctcg gtggccatca tcaagtacgt cgatgggaag catggctgct agctccccac 300
 caacttccgc aagcagctca ctgtgcatct g 331

<210> 33288
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B8

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 accggactgt attatgccgt ccagggcat taatttacta gtgtgttcga atctatatgt 180
 tataacagca cctacgtgta ttaagacggt atgtaaagct gttgcatcta tattaggtgt 240
 gaaaccatca ttaacgtcat caactatgcc atatataaaa agcatggcgg ccggttta 298

<210> 33289

<211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-B9

 <400> 33289

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 ggcgggcgccg ccggtgaccg gcatccccat cagcagcccc ggccccgccc tcgcgggccag 180
 ccagtgggtcc tcggggcctct gcgcctgctt cgacgactgc ggcctctgct gcatgacgtg 240
 ctggtgccccg tgcgtgacgt tcggggcgat cgcggaggtc gtggaccgcg gcgcgacgtc 300
 gtgcgcggcg gcgggggcca tctacacgt 330

<210> 33290
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-C1

 <400> 33290

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 ctctttactg cgtcccactt ttc 143

<210> 33291
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-C10

 <400> 33291

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 tcggcggcct cgcctggggc acggacgacc actccctcca caacgccttc agcacctacg 180
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gcttcgtcac cttcttcacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcg 348

<210> 33292
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C11

<400> 33292

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gtggagtgct tctagatgcc cgggtagaaa gcgaagaatc ccttcaccat tacca 115

<210> 33293
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C12

<400> 33293

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aaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggccctt ttaaagggtcc aaattttact 180
tccccttcct tgcaaattct tatttttttt tttgggcccc caaattttaat tcacttggcc 240
gtttttttaa aacaccgaac ttggaaaaac cctgggtttc ccaattttat tccctttgaa 300
aaaaatcccc tttttcccat ttggcttatt accaaaaagg cccaccccaa tcgcctttcc 360
aaaaatttgc aacccttat tggcaattgg taccctcct 399

<210> 33294
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C2

<400> 33294

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 ttaaaaaatta aaaaaattta aaaatattct tattaacaa ttaaaaaaaa ctttatcttt 180
 tttaaattat ccaatttttt tttcttttta t 211

<210> 33295

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C8

<400> 33295

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 aaagctcgtc gtcttgccc tgctgcaaca actgctgtgc ttgcaacacg aagcatccgc 180
 cggagtgccg gtgcaatgac atgtccgtca acgggtgccg tcccagtgat atgaactg 238

<210> 33296

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-C9

<400> 33296

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 gactggaaga agatcgagga gcatgtcggc accaagacga cgggtccagat acggagccac 240
 gccagaaat acttctcaa ggtccagaag cttgggctgg ccgcaaggct gccgccgatg 300
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<210> 33297

<211> 410

<212> DNA

<213> Zea mays

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<400> 33297

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ccacctgttc caccacatca agcacgaata gcacaccctg cactgccttt actgcaagtc 180
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atcgctcgaca gcgccttcgc actctactag aatcacgagg cgaagaatga cacctatcac 360
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<210> 33298

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D11

<400> 33298

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tctaggtcga ttcattatcc atgggtgaat agaattctcca ccaccacctc ttgttccacc 120
acaacatgga c 131

<210> 33299

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D2

<400> 33299

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taaagattct taaaccctcg gttgatgcaa tacacgagtt tgttacggag gttgagaccg 180
taaccagctt gcagcatgag aacattgtag cactaagggg attcagcttc gagaactaca 240
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agaatgatgg cacagagttt cttgtctggg agaggagaat taagatagca attgacatcg 360

caagagcact caaatttctc catctcggcg gtgtgaccca gtctgtgatc catggagatg 420
ttaagtct 428

<210> 33300
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D3

<400> 33300

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gatgcattcg gtggagatcc atgtcctggg actatgaaaa gagcccttgt tgaggctata 180
tgcggatgag tcatatgatc catataacgt actggtttct acaataatgt taccctatat 240
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ggattaattg tatggtagat ttaatcatcg tatgtgtaat gaacttaggg tcacattaga 360
tttgcattgg tgaaatgggt 380

<210> 33301
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D6

<400> 33301

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<210> 33302

<211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-D8

 <400> 33302

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 gttctgtttt agggtcgaac aggatcatgt tctgaggccc cgtccaacta atggtttcat 120
 gagtccaatc atggtttagag ctgttggcga cattgatatg ggtagaaaac cagtggcttg 180
 tgattagcct atgatggcgg ctgaaattgg tgattt 216

<210> 33303
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-026-Q1-K1-B2

 <400> 33303

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 gagtcatct gccagcaaga aaccacggt tcttgacgaa cccaagtggc gagccaagca 180
 gccatgtgag gagcgtggtg cctggcaatg cctcgtcctc agcaatgcca tcagggcagc 240
 cttcatagag gttgacatat tctgggcagt caatattctt cggtggcccc atgctgagca 300
 cccctggcgt gggcgccaat aggaatgagg cagactcaag agcacgctcc gagggaagca 360
 gagatcctaa tgccctgtgt gagaaaacta ggact 395

<210> 33304
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G6

 <400> 33304

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 ttgaccacga agacccttaa ttccggatcc ggggggaaaa ccccggtttt tttcccgaac 120

ttaactttctt cacatccctt gaatatgctt cegttcccgg gccccaccgt ctattcaagg 180
 cttcattccg tctcaacttg gaaacaatgt gctcgctaag tctccttgcc agtttccggc 240
 catacattgc ccaaaaacaa gcactggctc aatgctgtcc attatgttgg tcatgcagag 300
 cccaattggg aaagaacca agataacatc 330

<210> 33305

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H1

<400> 33305

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 aggtcgacaa catacccagg agccgtgtca agtgctacgc cctcgcgccc gccaggtgta 120
 tgtcgtcaa cctcgccgtc aagtaagctg acgtcatcaa ctccgtcgtg ctccaggacg 180
 actttttgcc aagaacaccg actccgctag agtacatttt tggttctatc ttctgcttgc 240
 cctgcatgct atttctcatc tgcttgagag atacatttaa acaagacaag agaaaattta 300
 tagatccaag aagattgtat gcacctgggc gaatgtatca tatcgttgag aggaaatttt 360
 gcagatgtgg a 371

<210> 33306

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H3

<400> 33306

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 agattgtgtc ttgaaacaag tttaaaatta agattactcg tggcaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa acataaaaaa aaaaaaaaaa aacaataaac aaa 163

<210> 33307

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H4

<400> 33307

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gatgtgagca agtactttgt gagcagtggg tttgctttcg tccatgcaaa ctccattgct 120
gatattgtgg ctgttgaggc tatccctgtg gatcagatcg acccagcatt gggttcagaag 180
gggtctcgctg aattcactgc caagcttggg ggggcctcta ctgacctgga gaaggctgag 240
gcccagatcg gagtcgatgt tcacagtgcc ctcaatgctg cattgaccgg ttaattgggtg 300
gcattttaaa ttgtcttgta tttttcatct acagttag agtgagtta agtttgcaaa 360
ctcatgggca tgggatggac ggaatgatcc taaataaatt atactccatc taaaacatgg 420
acatatgttt ct 432

<210> 33308

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H6

<400> 33308

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gagaccccggt ggtagccttc aagacggcca tctggttctg gatgacgccg cagtcgcccc 120
agccctcgctg ccacgccgtg atgaccggcg actggaggcc ctccgccacc gaccgcgccg 180
cggggaggct ccccgatagc ggctgacca cgaacatcat caacggtggt ctagagtgcg 240
gcgaggaccg ctccaccgac ggcgccaaag ccgccaagga ccgggtcggc tactacaaga 300
ggtactgcgg tatgctcgga gtggggtacg gggacaacat ggcatgcggg agccagaagc 360
cttacggagg atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg 420
ttgtgttgcc tctctaccta aagaataaat caagc 455

<210> 33309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-H9

<400> 33309

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 ggggatcttc gtcgccctcc tcgccgtggc cggcgaggcg gctgtgttca cggtggtgaa 120
 ccagtgcctg ttcaccgtgt gggccgcgtc cgtgccgggtg ggcggcgggc ggcagctgaa 180
 ccgcgggcgag agctggcgga tcacggcccc cgcgggcacg acggccgcgc gcatctgggc 240
 ggcgcacggg tgccagttcg acgcgagcgg ggcggggagc tgccgcacgg gggactgcgg 300
 cggcgtgctg cagtgcactg ggtacgggcg cgcgcccaac acgctggcgg agtacgcgct 360
 gaagcagttc aacaacctcg actttcttga catctgcctc atcgactgct ttaacgtgcc 420
 catgag 426

<210> 33310
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-A1

<400> 33310

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 gactgcagat gatgttggtg ctcttcttgc tgtagactgt acgcctatgg atgacaatgg 120
 ccgccagggt gatttgggtg cagaatttgc taataatggg aataagataa catgtgatcc 180
 agagatgcag agtcatatcg atgcatgtat ttctaaaggg agagctgaat ttgaagtttt 240
 tgtcctgcag gcttattctc ctgaggaatg ggaactggct acattgggtgc tcacacgacc 300
 taattatcag attaagttca aacagaccgg taatgttgta attgacgaga agtactcaca 360
 aagtctacag acaaaaattc ctaatgggcg cacaactcag tttgttttaa taactgcggg 420
 tacaactctt ncatttaaca cacaggg 447

<210> 33311
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-A10

<400> 33311

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agaggggatac aaaaaaatgc ggtggatggt taaagtcatt gagagagcac aacagaagac 120

agctgccttc tgaagcacia gatagatgaa gaatccaagg gtgatgaaca acaagaatta 180

ggtgtttacag tggatgatga cttggtgcat gaagacacgc ttgaaactga caatgctatc 240

gagcatacag atgatggtca acacgaccag gatcaaagaa ccttgaaagg caaacgagga 300

cacaaaacct gcaagcatcg canacaatga cgatgttgag attgtaactg agacacctac 360

tggactccaa gctcctgtgg agtcacgtat gactgattct ga 402

<210> 33312

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A11

<400> 33312

caaggacctt cggcgcccggt tcaggatcca catcttcccg agcgagttct tggttgaccg 60

gttctctctc ggaccacctc caaagctctt ggtgtagctt ggcaactctca ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactggcttc gatcccttcg gttaaggcca 180

tgtctgggac 190

<210> 33313

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A12

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ggtggacgct ggacagcaat gcccgggagg ccaaggagcg gctggaccag aagctcagga 120

ccaagaggga ggccgccatc aagaggcacc acagcacggg gagcataaag ctgggcgtgc 180

cgcaccggag cgccggcgcg gacgagcgcg gcgagagctc cgccggcgcg atggccggcg 240

tgcagcggga ggtgtactcg aagaagggcg tgatgcggcg gctgatgcgg tggagccggc 300

cgcggtgggc cgcggcggag catgoggagt gcg 333

<210> 33314

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A3

<400> 33314

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gactataggt ggctggctgt ctcgagtatt ggtaaagact gttcggagtg cgtcgttcgt 120

tctcgtccag aacagctggg ttctgggcat ccggggaaga aacggaggcg ttgacgcgtg 180

tgtgtaggtt cagaagaaac cccaataaga taattgcgtt gttatatgat gccgctcgca 240

ttattaggac gaaaaaaciaa agaagaatg agaactcgga tacataggtg cacacacgac 300

ctaattgcta gaataaagct cccacagacc gcttatg 337

<210> 33315

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A4

<400> 33315

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ggggctatat gtggctgacc tcgacttttag tatcgctaaa gactgatccg attgctttgt 120

tctttctcgt ccaaaacata atgtatttgc ccattcttta cagaaacgga actggaaaca 180

cccttggtgt gcctaacata ataccctagt aagataattg cgttgctata tgatgcctat 240

tgcattatta ggacgaaccg attggtcttt ctaacatttt cgcagcctga atggataaag 300

gaac 304

<210> 33316

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A6

<400> 33316

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aggctaacag cccaactgcg actgggttgat gatggcacac gtagccaggt cgagggaccc 120

tgctactttg ataccgggat ctatggtaag gctaagccga ccactaaact aggactccca 180

gaagggtgctc ctgaatcaga taacaggctg ggcctgctc tgattgtcag atccgggtgca 240

taatgaccac ttgacgaatg gcactgccga tgaggcagcg acccagaatg ctgctatcgg 300

tgatatcatc tatctatggc aggatctgca tcttcac 338

<210> 33317

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A9

<400> 33317

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ccacataata atcttcact gtgaagagct tgagcgtggc cttgtatcat ggcagctttt 120

cgctcggtt tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cagcactgtt gcagctatga agctgtatgt accttactgt tgggtgacta 240

ttttagttat tgctaatacac aggggatac 269

<210> 33318

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B10

<400> 33318

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tgagcggatc gagatggcgg cgtcagatgt tgagtaccga tgcttcgtcg gcggcctctc 120

ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180

gtccaagatc atctcgcgc gggagacgca gaggtccgc ggcttcggct tcgtcacctt 240

ctgcacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300

tcggaacatc accggtaacg aagcccagtc ccgcggtgc cgtcgaggct gcagcggcag 360
cgggtacagt gg 372

<210> 33319
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B11

<400> 33319

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aaagaaaaaaaa aataaaaaaaaa aaaaaaaaaa gataaaaaaaaa taaaaataaa aaaaataaaa 120
aaataaaaaat aaaaaaaaaa aaaggccggt cattcaaaaa gagtggagct cttttaagat 180
aggttatcaa tggcaaaacc atttcctatc cgaagacaat taaattccat ggctaagggt 240
tttaaaccgc ttgcatgtta aaaactatgc cttacgcaat cgaattgatt tacagaaatt 300
aaccctttat ggcgaatgtg actttccaca aagcccagta ttaatcacgt ttcccaa 357

<210> 33320
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-B12

<400> 33320

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acagggatct cctccatatt agtgagcagg atgtataatc ctcccagtgg gcaggacatg 120
tctactacg atcatgtgca gaagcgccat gaggagaagg gctgcctata tgcattgctg 180
ttcactgctt gctgctgctt ctgctgcttc gagacctgtg agtgctgcct cgaagccatc 240
tgctgctgct gctagtcttg cttggagggc atgggcgtcc atcatcgtg agatgtggcc 300
atgcgggaca cccaccgtcg aataaaatgc tgtacttata tgcacgcacg ttagaaatgc 360
attagtgtct gtttgatgtg atcttgtgtg tgtgcgcgcg catcttcatt tgcac 415

<210> 33321
<211> 441
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E4

<400> 33321

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ccgctcgccg gtatggcgat ccgcaagggg tcttcgtacg ccgctcgccg acttctcgcg 120

ctcgccctctg tcgccgccgt cgcaggggag gtcttcttcc aggagaagtt cgaagatggc 180

tgggaaagtc ggtgggtcaa gtccgagtgg aagaaggatg agaacatggc tggatgaatgg 240

aaccacactt cgggaaaatg gaatggagat gccgaggaca aaggatttca aacctccgag 300

gattacaggt tctatgccat ttcagccgaa taccctgagt tcagcaacaa ggataagacc 360

ctggtgctgc agttctctgt gaagcacgag cagaagcttg actgcggtgg tggctacgtc 420

aagttgcttg ggtggtgatg t 441

<210> 33322

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E6

<400> 33322

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aactatgcct gctctctcg aaaccacagg aaactattgt atatgctcga accgatactg 180

acgtgcaaat cgatcgtctc acttatgtat acgggcgaaa gactaattgt accatctatt 240

agctcgttcc ctacgaatgt tccctcacta tagctgtatc ccacacaagt tctattgtct 300

aaagccaacg attataggca tcttaggcgc aatat 335

<210> 33323

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E7

<400> 33323

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 agaaagcaac gtgcgacttg aaggacatga tcgattgtgg atttgcctat ccatcatttt 180
 ccatagtaat gaaaatgctc ttggctcgac atagtctggt ctattcgtec cgaaccgaat 240
 tttcgctggg ttgtttgtaa gtaaagtaaa tagtacacga tggagctcga gaggacagaa 300
 tttctttttg atcaaaggaa agaacttagg gttagtgaag actaataaat taagccaact 360
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 gaaagatgga aaaacttttt t 441

<210> 33324
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-E8
 <400> 33324

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 agggcgccgg agttcgctgc gtcgttcggt aacttgcggg gtcaatggga ggagggaag 120
 acaagcatga cgagagcgac aaggggctct tctcgaacat gatgcacggc gttgccggtg 180
 gtcattggga cccccaccag ggataccctc cgcagggcta cccaccgcaa ccaggagcat 240
 accgcctcc c 251

<210> 33325
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-025-Q1-K1-E9
 <400> 33325

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 ttaaactctg ttgcctaaaa tttgctgctg aaaacctttc ggctgtgatc cggaccgagg 180
 ggttcgacta tctcaaagac aactgcccac ccttcagctc agagatactg cggacagttg 240

ccgggtgtga ggaacaatgt agcagcggcg tgaaaagcca gagcgtatgg ggcagctct 300
ctgacggcgg cgacaccagc ggtcgcaggg tgaggccaag ggtctgagac gcgacccctgc 360
aagcactaac ctttctaatac aaactgtggt agtgtaaaat ggatacagct atttgaattn 420
taatctggga cgac 434

<210> 33326
<211> 359
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-025-Q1-K1-F1
<400> 33326

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ccaaatccaa gggaatggat caggcggcag ccatgagccc cagcccacgc gccgccgcgcg 180
gcateccactg ggaggcacac gggcggtctc tcacggcgtg cctcgtcgtg ctcaacgtcc 240
tctcgtcct cctcgtctac gctacttct ggcgcttctt ctcgcgctcg cgcacgcgcg 300
gcgccggcgg cgccggcggc ggcgaggacg acgactcggc cgatggggcg tcggcgtct 359

<210> 33327
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-025-Q1-K1-F12
<400> 33327

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tcacacgagc cctcgacatc cccctccac gatttacgag gcggctggaa accatgcact 120
atattgccga gtatgagcat gaagaggcac acgacggcct gctgcttgag ctcgctaggc 180
tcaactttgt ctttgtgaga gcgcttcacc tcaggagct gaaggacctg tcaactatggt 240
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acttttgac ctgtggtatg cttcatgagg aggagtactc cctggcacgg atgttcttcg 360
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<210> 33328
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-F5

 <400> 33328

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 gtacttgcaa tttctatccc ttcaactctt tcttccgccc ccggtgtttca ggaataatgt 120
 tctggagatg aagaaacgct tgcgtgggcg tgctgcagg cacgcgtgta gtagctgcgg 180
 tattagtata tatgcttaga tggtcagtc ctttcttta gtacaatttg gcgctggacg 240
 tgtaccttat ttactatgt atccgtgaca acagctatgt gtctgctccc tttattttct 300
 tggctttgct tcaaaaaaat ggctacgaac attgcgaggt tggacctttg agaccatata 360
 tat 363

<210> 33329
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-F6

 <400> 33329

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 gttgctggct gcggagcacg aggctcagca aattgtgaat gccgctagag ctgccaagtc 180
 agcgaggctc aggcaagcaa aagaggaggc tgagcgggaa atagccgaat accgtgcca 240
 gatggaggct gagtttcaga ggaagggtgc agagagcagc cgcgactccg gtgcaaacgt 300
 caagcgtctc gaggaagaaa cggcggcgaa gatcgagcaa ctcaccacgc atgccgaag 360
 catctccccg gatgtcattc agatgc 386

<210> 33330
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F7

<400> 33330

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cgggagggca aggcaaacat ctgcggcctc ctttcccgaa cccgggttgg atggagcggg 120
acttcttggc cgcgatcggc aaggagcagc agcaccgcg caaggagaag gcaggcggag 180
gcgccgagga atcagcttac ttccggggcag cagccgtccc ggcgatggac tggtccttcg 240
cgagcaagcc ctgcgccggc ccggcgctta tg 272

<210> 33331

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F8

<400> 33331

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gggggacact gactccgga tccgcggggg acacgccggt gttcttgccg gacttgagct 120
gctccagtgc gctggagtag gctgcggtgc cggggccgca ccgactatgc acggcttcat 180
gccgtcgcaa cttggagaca tgggtgctgc taggtcgact gccccattc cggctataca 240
tgggtccaaag acaggcgcta gctcaatgct gaccattaag tgggtcatgc ggagcccaat 300
tgggaaagac cgtacgataa catctgcttc atgggtacgc cagtagcaca tccacgtttg 360
ggactgttgg ctctgtaccg atc 383

<210> 33332

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F9

<400> 33332

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aaaaaaaaag cggggggtgt aa 82

<210> 33333
 <211> 84
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G1

 <400> 33333

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 ccgacgcgctc cgccacgcgcg tccg 84

<210> 33334
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G10

 <400> 33334

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 tgggttgctgc gagagggtccg ggccttcgtg ggatcttgaa aattgaatgt tctaattggag 120
 tccaaggggtg gcaagaagaa gtctagcagt agtcgttccct cctgatgta cgaagctccc 180
 cttggctaca gcatcgagga tatccgccct gcaggcggca tcaagaagtt ctccgctgct 240
 tactcgaact gcgcgaggaa gccatccctga tatctctgtt gtcaccccca tcctagtagc 300
 gtagaaacca cctgcatttt cattttgatc tccctaatec ctccggctag ctgctttcca 360
 atgaccaaaa gatataaaag accactttcc gtctttcttc cgtggcctgt ctgtcatctg 420
 gctctgaaac 430

<210> 33335
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G11

 <400> 33335

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 atgggctcta ggctctagct agccgcgccca ctcttcgtg tagccatcag ccttctcatt 120
 gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgcgcg cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240
 ggccgaggcc gaggtctgtg ctctgtctga tcccgaggag cttcccgcgg ccgagcagca 300
 ggcagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaagagcccg tcgcggccga 360
 accggccgcc gaggcggagg ctgctgtctc tgctggtccc gaggagactc ctgcggctga 420

<210> 33336
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-G12
 <400> 33336

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 atgtgtttta tttttatttt attttttttt tttcttattt ttttcatcat tctttttact 120
 tttcttatcc ccactgtcca agtccccttg tccacacctt tttgagtcag gtagcccacg 180
 taccggaaaa acctccgacg gccgcctttc ccgatcattc tgctttcttt 230

<210> 33337
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-G2
 <400> 33337

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 ccagtgcgct ggagtaggct gcggtgccgg ggccgcaccg cctctgcagg gcttcatgcc 180
 gtcgcagctt ggagacaagg tgctcgttag gtcgcctgcc cgggttccgg cgatacatgg 240
 cccaaagaca ggcgctggct caatgctgcc cattaggtgg gtcattgcga gcccaattgg 300
 gaaagaccgc aagataacat ctgcttcatg ggtcgtcgag tagcaaatcc acgtttggga 360
 ctgttggctt tgttccgacg ggatctagag atggcaatgg caatgacaaa tcatattcgc 420
 actaggttat tcgttccagt actttcacgg acact 455

<210> 33338
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-G3

 <400> 33338

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 ggcggcgcca ggggtggcggc ggcggctacg gaggcagtgg ccgctaccgc ggtcggcgca 120
 agggttgtgg cggcggtcgg agggactgat gtgtggggccc atcctggcctt ctggcgagtt 180
 atcttatata tctatagtat tgtgttaccg atcgcttctg tcaccgcgtt agtgttcgat 240
 ctacctttgg attacgtgtt ggtacccttg ttgttccctt tggctgctcc cgctatgaaa 300
 cgagacgaga gaataatg 318

<210> 33339
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-E3

 <400> 33339

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 attgacgacc aggcgaggtc tattctcata agtggcgtag cctcacaact atggacctga 120
 cacagggact ctttctgaac acaatgaccc attcgatgcy ttggctcctga tgcaggagcc 180
 tgttattcct ggctcggtac tgcgagcatg aacaatcggc cttatgcca tgattgacca 240
 ggggtgaaaag gattacaaga tattctcaac ctgtgctgat gatcctgaat atcgtctcta 300
 ctacgacatc agtgagctgt cttctcatcg tcagcacgag atcaagcggc tctttgaaga 360
 ttattagaag gatgataatt 380

<210> 33340
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-B8

 <400> 33340

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 tccctgcagc tctgccactc agcaaaggga cggaggagga aggaggaggg gaggcagtcg 180
 ccgccgtgga cgccgccgga acgagctcgt ggccgtgctg caacaagtgc ggtttctgct 240
 acctgtctga ccgccgcag tgccaatgcc tggacttctc gacggtcggg tgccaccag 300
 agtgcaagcg gtgcatcagg tacaccgtcg acggtggcgt cgacatcccg cccgtgcacg 360
 cct 363

<210> 33341
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-C1
 <400> 33341

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 atgggcttta tcgtgctatt gacatatatc tcaaggcgca cccacatctg ccagaatcgg 120
 acaaggaaga gctctgccgg gtgatggact gccagaagct gtccctggag gcctgcacac 180
 acgggcgca gaacgagcgc ctcccgtcc gcgtcatcct gcaggtcctc ttcttcgagc 240
 agctccagct gcggagctcc atcgcggaat gcctcatgat ctgagagccc ctagacggcg 300
 gggcggtg cttctcgcg cagctcgcg gcctgcctgt ctgggagag cacc 354

<210> 33342
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-C11
 <400> 33342

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 ttatccaaga tgggtgcatct gattctattg gggtgaagatc ccgtatttgc cgttcgttca 120
 atagactcaa atagtgcagt gtcacagaa aaagcaaact gcacacatga aaccttatgg 180
 gtttctttgg cagacatcgc ctttattaat ggacatcttt aaattagctt gtaccgatac 240

atgctatgtc cattagagaa acgacatcct gaggcactcg ccttcgctcc ggactgtctt 300
 agggttatcg ctgatataga tatggtttac atgcttctat acccttagaa ctctttcgct 360
 ccgaatctcg ggacgagatt cttttaaggg ggga 394

<210> 33343
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-C2
 <400> 33343

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 ccgagagaag caaccatgag acctcaggcg tcgttactcg tcacactggc tggtatcgct 120
 gtcgtccctg cagctctgcc actcagcaaa gggacggagg aggaaggagg aggggaggca 180
 gtcgccgcgc tggacgccgc cggaacgagc tcgtggccgt gctgcaacaa gtgcggtttc 240
 tgctacctgt ctgaccgcc gcagtgccaa tgctggact tctcgacggt cgggtgccac 300
 ccagagtgca agcgggtgcat caggtacacc gtcgacggtg gcgtcgacat cccgccctg 360
 cagcctacc 370

<210> 33344
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-C4
 <400> 33344

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 gaggctgagt tcaagaccca cccgatgaac ttctgaacg aaaggacct gaaggggacc 120
 ttctttggca actataagcc acgcactgat ctgccaaatg tgggtggagct gtacatgaaa 180
 aaggagctgg aggtggagaa gttcatcacg cacagcgccc cgttcgccga gatcaacaag 240
 gcgttcgacc tgatggccaa tggggagggc atccgctgca tcatccgcat ggagaactag 300
 atttcgctgt ctagtttggt atctggcctg ggcttgggggt taataaaaga ggcaatgcta 360
 gcctgccctt tcgatgagga ggtacatata cgc 393

<210> 33345
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-C6

 <400> 33345

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 tatatatatta catacatata tgtatgtgtg tgggtgcctt gcgtggcctt gcgtgatgat 120
 gtcataaata aagagggttg gtgtgcttgc ggtattcatg gatggccatg gatctgagca 180
 catgacgttg gatgctttct taaggctctc gtggatcttc tatatttgga agaagctgta 240
 aaataatata tcgccatcta gtgttggcgt tggcttgtat gtactttgta cctgctttat 300
 tattttgtgc aatatcgagt aacctaattgt ataaaaaaaa aaaatacacg acgtgategc 360
 at 362

<210> 33346
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-D1

 <400> 33346

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 gggattaacc gagcggcctg aagagccacg aacaaaagct gcaaaacgct ttcaaaatac 120
 tgaaaaggaa tcttcacaag tttcaggcag aaactgcttc tcccctacaa tcggcctctc 180
 aacgcatacg ctacatgttg tcccatgacc ctccacagcc agaacaattc ttctgtggctc 240
 tcgagagcaa cgcgcctatg caacctacat accatactat ggacatgaac cagtatccag 300
 agccagcgcg tggcggctgt taccctctc ctttgattgc 340

<210> 33347
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-025-Q1-K1-D11

<400> 33347

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cctctccgaa gcttcgagaa caacagcagg ctcaacggtc cagagctaca aggattgggtt 120

ccttatgatt ttggatgtta gatgccgac aacaatgtac caccttcccc agttgaaagg 180

gggaaagcca agatagtatt atcaatagaa acctagcttc aagaatgtcg tgactatata 240

tatgtatgat attaagacga gatttgataa ggggtggcaaa aaaaaataag acacgccttg 300

taa 303

<210> 33348

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D12

<400> 33348

aaaaaaacaa aaaaaaaaaa aaaaaaaatt taataaaaat aaataaaaaa aaaaaaaaaa 60

ggagggaaaa acaaaaaaaaaa aaataaaaaa aaaaaaaaaa a 101

<210> 33349

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D3

<400> 33349

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ggcgtttttcc aataggggatg aagggtcccct aaagatagat aactatgact ttgaaaag 118

<210> 33350

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D4

<400> 33350

atacgacca atcttcttac tcctacatgc ctttttttag ctctcttata ttgacaccta 60

ttgtaggtct attaccagag ttggcaacct cccaac

96

<210> 33351

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D5

<400> 33351

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agagaccgat agcgaacaag taccgcgagg gaaagatgaa aaggactttg aaaagagagt 120

caaagagtgc ttgaaattgc cgggagggaa gcggatgggg gctggcgacg cgcaccggcc 180

gtatgcggaa cggctcctgc tggtecgccg atcggctcgg ggcgtggacc gttgtcgccc 240

gcgcgcggcg ccaaagcccg ggggccctaa gcgcccccg cagccgtcgt cggcgcgggac 300

ggatccgcg cgcctcttgc gcgcctctcg gggcg 335

<210> 33352

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D7

<400> 33352

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atggagggtt atcagcttga gaagccaacc gattcattct taaatcacat acgatccaca 120

aggtcacagc atatgcttga acagctcact gatcttcaga cgtggtagca aatgatgtgt 180

gaagcatata acttcctaac aagaaagctg gatgagacca gcatccaact tcatgtccaa 240

gtgtgcgttc acggcgccaa ctgattactc tactaccagc ggtactcctt gccacagcca 300

gcccataac atgttgcct ttgattattc ttt 333

<210> 33353

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D8

<400> 33353

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tctgtgtacc ggccagtaaa atccgaaccc acagcgagaa atggcggccg cagcgctccg 120

tccggcgatc ctgcgcgcga ttcgactatc cccctgccct tcgctcgccc tcggcgccga 180

tgggacaggt gcatcccacc cgcacgcgct ggggcgggtg ctcgagcggc ccatgtcctg 240

ccacgacgcg cacctcacc ggcacgaagt catcgaccg atcctcgacg tcatcaagag 300

ccaccccaag atcgaccct gcaagggtgac cctggaggcg cacttcgaga aggatctcgg 360

gctcgacagc ctggaca 377

<210> 33354

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E1

<400> 33354

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agcttgatca gcttgagaag caaattgatt catccttaag tcacataaga tccacaagga 120

cacagcatat gcttgatcag ctactgatc ttcagaggag ggagcaaatg atgtgtgaag 180

caaataagtg ccttagaaga aagctggagg agaccagcaa ccaggtgcat ggccaagtgt 240

gggagcacgg tgccaactta ttactcggct acgagcggca ctctcgcca cagcaagccc 300

catcacatgt tggcaatgga ttattctttc atcccctgga agctgcagca gagccaaccc 360

tgcagatcgg gttcgctccc gagcatatga ataact 396

<210> 33355

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-B6

<400> 33355

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aaaaaaaaa aataaaaaaa aagcagaata ttataaaaat ttagaccact aataaataat 120

aaaaacaaaa aaaacaataa aaaaaattaa aaacataata aaattttaa cccccctttt 180
acacaatcca acttttactt catcattcat tctaattcta acatttttaa tatttctacc 240
taattaaata tatttatcca tccttttcca ttatcttaat ttaaaaaacc ttttcattcc 300
ccatcctaaa ttctcttaat aacaaacctt tttat 335

<210> 33356

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E10

<400> 33356

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tgtgttatct ccatggctac tactctatca tttccttatt aataccattc tatctatctt 120
aaatctatct acctaaaatt ttcttcttaa aactcttttc tttattatcc tctcctaata 180
tttcactatt tcaaatacaa ctttacattc tttctac 217

<210> 33357

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E11

<400> 33357

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ggggagaaga gccctcgaca taagactacc acgatttacg aggcggctgg aaaccatgca 120
ctatattgcc gagtatgagc atgaagagga acacgacggc ctgctgcttg agctcgctag 180
gctcaacttt gtccttgtga gagcgcttca cctcatggag ctgaaggacc tgtcactatg 240
gtggagggag ctctacaaca ctgtgaagct cccgtacgct cgggaccgta tggaggagat 300
ctacttttgg acctgtggta tgcttcatga ggaggagtac tccctggcac ggatgttctt 360
cgccaagacg ttcgagatgg tgtcactgat ggacgacact ttcgatgtcc atgctactct 420
agacgagtgt cacaagctca a 441

<210> 33358
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-G5

 <400> 33358

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 ctatg 65

<210> 33359
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-G6

 <400> 33359

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 ctatg 65

<210> 33360
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-G8

 <400> 33360

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 cgtgggcgtc cgtcacctac ggcgtcttcc tctgcatcga ctgctcggcg gcgcaccgca 120
 gcctcggcgt ccacgtctcc ttgctcaggt caacaaattt ggattcatgg actccagaac 180
 aactgaaaat gatgggtctat ggcggaaata accgtgcgca agctttcttt aagcagcatg 240
 gttggacaga tgggtggaaaa attgaagcaa agtatacttc aagagctgct gacttgtacc 300
 gacagttgct tgctaaagac gttgctaaaa gctctacaga agatggaaac aatagttggc 360
 catcttcccc agttgcagca tcccaggctc caaatcaagc tgctgcattt ccagatctca 420
 agctgacaga ggtgtcaaaa gaaaatgtaa gtgaaaagaa agattctgag 470

<210> 33361
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-G9

 <400> 33361

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 gcgagaggtt ctggtagggc tctacgagcg cacgctcaaa gagatcaagg ccgtccccga 180
 agacgagggg taccgcaagg ccgttgaatc cttcaccggg caccgcctcc agatctgcca 240
 ggaggaggag gactggaagc gcatcgagga ccgaatcgga tgcgggcagg tgcaggagct 300
 catcgaggag gccgaggacg agctcaagct catcgctaaa atgattgaat gggatccatg 360
 ggggtgttccc gatgactacg aatgtgaggt gattgaagac gacaccccaa ttcctaagca 420
 tgttctcag c 431

<210> 33362
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-H1

 <400> 33362

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 ctatataccc atcctctaca tcaataactg tatcttcttc ttcattcteta ttaccatcaa 180
 catgtactct aatcaccaca attatattat aactaatcat gatcattcca atctcactgc 240
 ctactctatc tacatcatct ttaac 265

<210> 33363
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-H11

 <400> 33363

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 gctgaggcca ccattccac acccaagggt gcacctgaga ccactaccat ccacattgag 180
 gttgcgga aacatgcagt agttgagaag gtggaggagg acaaggagga ggcactaaca 240
 gtggcggcga aacaagagcc agcagccacc attgagcctc agcagattgc tagtgagggtg 300
 accacttcgg aagtggcggc cgctgttggt gagcctgaga acaaagagga ggaggaagtt 360
 gtggagaaga ccgtcatcga gaaggagaag ccacagcag tccatgcaga ggaaaatatt 420
 gccaccaaca 430

<210> 33364
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-024-Q1-K1-H12
 <400> 33364

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 ggagttctag atcgca 77

<210> 33365
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-024-Q1-K1-H6
 <400> 33365

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 gctgctctag ctctagcctc tagccctagc tagtagctag ccaactcggc gtgtagtcat 120
 cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180
 ccgaggaagc gccggtggtg gagaccccggt ctccgcccgc cgtcgtgccc gaggaggctg 240
 cccccgccgc cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300
 ccgccgctga gcccgaggcg gcccccggtg cggcggtatga agagacgcca aaggaggaag 360

agacggcaaa ggagggcggag ccggagccgg agcccgcngc cgctgaagag gtgaaggagg 420
aagcggcagc gcc 434

<210> 33366
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-H7

<400> 33366

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aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacca aaacacaaat 180
aaacaaccaa aaaaatcaca aaaacagaaa aacccaaact actaaagaaa tcaaaaccca 240
aaaaagcatg ttcccgaatt cgaaaacaag gtagaagacc cagatgcaca ggc 293

<210> 33367
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A1

<400> 33367

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aagggcacat agaaccggga tcttttgctg gccatggatg ttctgaatgc acttgtaacg 180
gccctggtat ctgacactct cctagaatac aattcaatac aagggctgca gctctagctt 240
gaagaaaaaa aaaaaaaaaa cagaaaaaaa taaaaaaca gataataaaa aaaaaaaaaa 300
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cctatttggg aaaaaaaagg gggggcctt 389

<210> 33368
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A10

<400> 33368

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tttgctgtta aggagcccg agtcgcggcc tccctgctca tcgctggatt cggctctctt 180
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gttttctcat gccaatgttg cccacattt tcttccccgt gtttttctg gcgaccagat 360
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<210> 33369

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A11

<400> 33369

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tgtccttaat gaacccgact ggccgtcctt ctgcactcat cgctacaggc aaaaccttgc 180
tttcacaaaa cttactggcc ttgctggata tatggcttac ccagatcac gttactccaa 240
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<210> 33370

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 caaaagccgt tttccagaga tctttttcag cgccagacgc cagccgccgt ctctcgcttg 180
 cctgcatttc cgatcctgag gcagtcctca tctcattctc atgatctcat ccaaccggga 240
 ggctgggaac gagatcacag ctacagctac agctacctga gcaggatcct cctcagatcg 300
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<210> 33371
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 <212> DNA
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 <223> Clone ID: LIB3068-025-Q1-K1-A5
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 aaagaggaaa ggggacaagt acatgtacaa tacgacgtg cttccctccc tccggcgggc 180
 atttctgcat catcgctgct gagattcctg gtgcgggtgc gtgcgggtgc gtgctgtgcg 240
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<210> 33372
 <211> 346
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 <213> Zea mays
 <223> Clone ID: LIB3068-025-Q1-K1-A6
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 aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 180
 agggggccat ttttaaaatt tcaaattttt aaaacccttg aaattaactt atttaatttt 240
 tttttgggaa attaaaaatt aatcaatttg cctatttttt aaaaagttat gatttgaaaa 300

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346

<210> 33373

<211> 141

<212> DNA

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<223> Clone ID: LIB3068-025-Q1-K1-A8

<400> 33373

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ggaataatac tgtaactgtg tttcctgccg ggcaatgcac tgtgatatga tgcccaacga 120

ataaatgtcg cttttatttt t 141

<210> 33374

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<223> unsure at all n locations

<223> Clone ID: LIB3068-025-Q1-K1-B1

<400> 33374

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cttctgattc aaatacttat tacactaatg gcacctcgca atcatgttcc tttgatcatt 120

ttatgatatg atttatgatc tgaaccacat taaacacctt tctatttaac gcagcctgat 180

ggccaagtgc ctggagataa gaccgcggga catcacgatg atgccttcag caccttcttc 240

agccagactg gtgctgggaa gcacgttccc cgtgcaatct tcgttgatct agaaccact 300

gtgatcgatg aggtgcgcac tggcacgtac cgnacgtctt tccaccctga gcagctcatc 360

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<212> DNA

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<400> 33375

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 gtctgttagt catcagcctt ctgatcgta cccatggcca ctgccgaggt ccagaccccc 180
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 <211> 354
 <212> DNA
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 <223> Clone ID: LIB3068-025-Q1-K1-B5
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 ttgtatgata tgatttatga tctgaaccac attaaacacc tttctatcta acgcaacctg 180
 atggccaagt gcctggagat atgaccggcg gtcatcacga tgatgccttc agcaccttct 240
 tcagccagac tgggtgctggg aagcacgttc cccgtgcaat cttcgatgat ctataaccca 300
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<210> 33377
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-024-Q1-K1-E10
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caactcgtgc ccgtctgcc gtttcgagct gccaccgac gaccgcgagt acgagtcctg 300
gaaagccggc cggaccgacg ccgcgtgaac cggccaacca ggcagtggcc gcatgctctt 360
atgggtatggt tttattgata gtgttgatg tatgggttg gtttgaatcg ggtgctttgg 420
ttataagggtt gc 432

<210> 33378

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E2

<400> 33378

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ctccaactcc taactaccaa acaatttata ctttaaatt 158

<210> 33379

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<212> DNA

<213> Zea mays

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<400> 33379

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tacggttacg gcggcgggta caccocgacg ccgacgcggg ccaccccgac cccgaagccc 180
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aaggagcacg ggccaagcc ggagaagccg cccaaggagc acaagccgac gccgtccacg 300
tacacccga gcccacaaacc cagccgctcg acgtacactg acaccccgac gccctccaag 360
ccgacgccac ccacatacac taccgcccct acgcccacac aaccacaccc aaaacccact 420
atcactacta cgacgtacac cccgaccccc aagcctacga cacct 465

<210> 33380

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-E6

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tcgcaagttc atgaccaacc gactgctggc ccgcaaacaa tttgtgcttg aggttatcca 180

ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240

cgtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaagcaa 300

gtccactggc ttcggcctca tctacgat 328

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<211> 480

<212> DNA

<213> Zea mays

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acccaatctc ccctacacca gaaaaattcc cagttctttg gtccgcgtca gagaggcggc 120

ggcgatgtct gggcgcggca agggcgga ggggtctggc aaggcgggcg cgaagcgcca 180

ccggaaggtg ctccgcgaca acatccaggg catcaccaag ccggcgatcc ggaggctggc 240

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caagatcttt ctcgagaacg tcatccgga cgcgctcacc tacaccgagc acgcgcgcgc 360

caagaccgtg accgccatgg acgtcgtcta cgcgctcaag cgccaggga gcacctcta 420

cggcttcgga ggctaggcta ggcgcctgtt catagtcggg gactgggttag gggacatgtc 480

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<212> DNA

<213> Zea mays

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<210> 33383
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F1

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taaggaaatc aaaaagggga aatccgtaca tgtttgctct gtttcatctg tatcttgcac 180
gttaaatatt taaatataaa aagcattgag tc 212

<210> 33384
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F10

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<210> 33385
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F11

<400> 33385

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gaaatatcag tggataaacac ggattttaaa ttttaatcat cctcacttat tgcgatttta 360
atatcgcatc tgttccgttt atcgcgagtg tgacatcatt tttacttcta tttattcggg 420
ctcttcccaa att 433
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 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F3

<400> 33386

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaattaaaa aaaaaaaaaa ataaaataaa aaattaattt aaaaaaaaaa taaaaaaagg 240
aatcgatct agattatata aaaacatgac tgggaaaaaa ctactgttac gaaatataat 300
agtgttgcca aaaatcaaa 319
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 <211> 252
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 <213> Zea mays

<223> unsure at all n locations
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-F9
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 <212> DNA
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gcacctactg ggccaccttc gtcaccatcc atggcctata catcatcgtc gaacatctcg 240
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<210> 33390
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-024-Q1-K1-G2
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<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<211> 477

<212> DNA

<213> Zea mays

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<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-D6

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<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C5

<400> 33394

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<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 33396
<211> 308
<212> DNA
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<223> Clone ID: LIB3068-041-Q1-K1-B11

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<210> 33397

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-D5

<400> 33397

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gcagaccatc tttgctgctt gtctatgctg agaataaatg tgaacgggtg cccctggacgc 180
tggatccatg ctggttttgg acaacgctgcc tttttgtgtt taacttatct gctgccgtac 240
tgttacgaat tcgcaagttt tagttctttt gggctttgct aaagaataaa caatgaggtt 300
tcagtttaca cacaagtttt gggatggatt acaagctcag agactatgac ctcaatgaca 360
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<210> 33398

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-055-Q1-K1-G2

<400> 33398

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gtggatgtgt cagctgtaga cctcactgtc agaatcgaga agggggcctc ctacgaggaa 180
atcaagaaag ctattaaggc cgcttctgag ggccactca aggtatcat tggctacgtg 240

gaggaggatc tgagttccac cgactttcac cggtgacagc aggtcgagct ttttcgacgc 300
 caaggccggt attgccctga acgaccactt catcaagctc gtctcgtggt acgacaacga 360
 gtggtgctac agcaaccg 378

<210> 33399
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-002-Q1-K1-D3
 <400> 33399

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 ggctcgtggc cagtgtcgcc ctgcagagcg aggatgtcga gctcgtcgcc gtcaacgacc 180
 ccttcatcac cacggattac atgacctaca tgttcaagta cgacaccgtg cacggccaat 240
 ggaagcacag cgacatcacc ctcaaggact ccaagacgct tctcttcggc gagaagccgg 300
 tcaccgtctn tggcatcagg aaccccgagg agatcccggt gggtgaggct ggtgctgagt 360
 atgtcgtgga gtccaccggt gtcttctactg acaaggacaa ggctgctgca catct 415

<210> 33400
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-H2
 <400> 33400

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 gccagggctg ccctgcagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcate 180
 accacggatt acatgacctc catgttcaag tacgacaccg tgcacggcca atggaagcac 240
 agcgacatca ccctcaagga ctccaagacg cttctcttcg gcgagaagcc ggtcacctgc 300
 tttggcatca ggaaccccgga ggagatcccg tggggtgagg ctggtgctga gtatgtcgtg 360

gagtcaccg gtgtcttcac tgacaagga

389

<210> 33401

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-E3

<400> 33401

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ccatgggcaa gattaagatc ggaatcaacg gcttcggaag gatcggcagg ctcgaggcca 120

gggtcgccct ccagagcgag gatgtcgagc tcgtcgccgt caacgacccc ttcataacca 180

cggactacat gacctacatg ttcaagtacg acaccgtcca cggccactgg aagcacagcg 240

acatcacact caaggactcc aagacccttc tcttcgggta caagccggtc accgtctttg 300

gcatcaggaa cctgaggaa atcccgtggg gtgaggctgg cgctgagtat gtcgtggagt 360

ccaccggcgt cttcactgac aaggacaagg ctgctgcaca tctcaagggt ggtg 414

<210> 33402

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F4

<400> 33402

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ggtcggagtg aacggattcg gccgcacgg gcgcctggtc accagggctg cttttaattc 120

tggcaaagtg gacatcgctg ccatcaatga ccccttcatt gaccttact acatggtcta 180

catgttccag tatgattcca cccacggcaa gttcaacggc acagtcaagg catagaacgg 240

gaagctcgtc atcaatggaa aggccatcac catcttccag gagcgagatc ctgccaacat 300

taagtggggt gatgctgggt ctgagtatgt ggtggagtcc actgggggct tctactaccat 360

ggagaaaggc tgggctcact tgaagggtgg cgccaagagg gtcacatct ctgcaccttc 420

tgccgatgcc 430

<210> 33403

<211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-029-Q1-K1-F6

 <400> 33403

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 tcgtcggcca ccgccgtcgc tccgttccag gggctcaagt ccaccgccag cctccccgtc 120
 gcccgccgct cctccagaag cctcggcaac gtcagcaacg gcggaaggat ccggtgcatg 180
 caggtgtggc cggcctacgg caacaagaag ttcgagacgc tgtcgtacct 230

<210> 33404
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-046-Q1-K1-B2

 <400> 33404

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 catggcctgc ctgccaaca tggtcgtcat ggccccgtcc gacgaggccg agctctgcca 120
 catggtcgcc accgccgchg caatcgacga ccgccgtcc tgcttccgct acccgagagg 180
 caacggcggtt ggcgtcccgt tgccgcccga ctacaaaggc actcccctcg aggtcggcaa 240
 aggcaggatc ctgctggagg gcgacaccgg gngctgctg gngtacgggt cgggagtgca 300
 gnactggctg accgtcgcgt acctggtgca gcg 333

<210> 33405
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-C6

 <400> 33405

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 tggctccac cgtgatgatn gcctentcng ccaccgccgt cgctccgttc caggggctca 120

agtcacccgc cagcctcccc gtcgcccgcc gtcctccag aagcctcggc aacgtcagca 180
acggcggaag gatccggtgc atgcaagtgt ggccggccta cggcaacaag aagttcgaga 240
cgctgtcgta cctgccgccg ctgtcgacgg acgacctgct taagcagggt gactacctgc 300
tgcgcaacgg ctggataccc tgccctcgagt tcagcaagggt cggcttcgtg taccgcgaga 360
actccacctt cccgtgctac ta 382

<210> 33406

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D2

<400> 33406

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agaaattgac ttactacacc ccggagtacg aaaccaagga tactgatatc ttggcagcat 120
tccgagtaac tcctcagctc ggggttccgc ctgaagaagc aggagctgca gtagctgcgg 180
aatcttctac tggtagatgg acaactgttt ggactgatgg acttaccagt cttgatcggt 240
acaaaggacg atgctatcac atcgagcccc ttcttgggga cccagatcaa tatatctggt 300
atgtagctta tccattagac ctatttgaag agggttctgt tactaacatg gttacttcca 360

<210> 33407

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-A10

<400> 33407

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caatgcatac agtcccgtgc aagatgttgc ggattcgtgc agaactggtg ctgccactaa 120
tgtcattttt ggtcttgctc ttggatacaa gtcggttatc atccccgatt tcgctattgc 180
tgtagcatc tatgtcagtt tctccattgc tgcgatgtac ggcattgcag ttgccgctct 240
tgctattgat gcttatggtg ccatcagtga cgatgctgat gctattgctg agatggctga 300
catgagccac agaatcgctg agagaactga tgctatcgac gctactggca acagaactgc 360

tgctatt

367

<210> 33408

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-E5

<400> 33408

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cctataactca tcagttgtat accctcacaa ttatggtttc gttccaagga ctctttgtga 120

agacaatgac ccattggatg tgttggtcct gatgcaggag cctgttattc ctggttcggt 180

cctgcgagca agagcaatcg gccttatgcc catgattgac cagggtgaaa aggatgacaa 240

gataatagca gtctgtgctg atgatcctga atatcgtcac tacaacgaca tcagtgaagt 300

gtcttctcat cgcctgcaag agatcaagcg gttctttgaa gattattaga agaatgaaga 360

tt 362

<210> 33409

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-C11

<400> 33409

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gcgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accgcagatc 120

aggttgagaa gattgtcaaa accctgaatg aaggaaatgt tccctcttca gatgttggtg 180

aggtcgttgt cagtcctcct tatgtgttcc tcccgggtgg caagagccag ctgcgccaag 240

agttccaagt tgctgctcag aactgctggg tgaagaaggg aggtgcattc actggtgaaa 300

ttagtgctga aatgctcgtc aaccttggcg ttcctgtgtg cattcttgga cactctgaaa 360

ggagagctct gctgggagaa tcaaatg 387

<210> 33410

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-A2

<400> 33410

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atgaggcagg atctgaggac aactttgtgc aaggggagaa tgggacttct gtagcaaattg 120

cttcgattga tcctgctcaa tctttacatg gcagcaatct ttcaccacca acagtactac 180

agtttgggaa gacaaggaag ctatctgaga gatctgaccc tagaaatcgg caactcctgc 240

aaaaacgaca gttcttccat tctcacaagg cgcaacccat gcaactggag caagtgttct 300

cggaccgtga tagtgaagat gaagttgatg atgatattgc tgacttcgag gatagaagaa 360

tgcttgatga ttntgttgat gttacgaaag atgaaaaact tattatgcat atgtggaatt 420

catttgttcg aaaacaaaga gtgtagctg atggtcatat a 461

<210> 33411

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-A8

<400> 33411

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aaaataatta aaataaaagg tctcgtctgt actattgtat tgtaccatgg atcatatcgt 180

acatgttggtg tc 192

<210> 33412

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B10

<400> 33412

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tctggcgtga gtccccatc gggatcgtct ccttgctgat gatgagcggg ggcgatggta 120

ctcccgtccc cagtatctaa tagcacgatg tcgttttgta gaacgccgtt gcatttgatt 180
gtttgtgccataataacttgc aggttttgct gacattgtcg ggaggaggta tggctcagcg 240
aagctgccat tcaatcggaa gaagagctgg gccgggagca tctcgatgtt catttctggt 300
ttcctgctgt ccgcgatgat gatgctctac ttctcaagcc tgggttacat tgatgttatc 360
tggaagagg cacttggtaa gctggcgctt gttgcactag cagcaacagt agtggagtgc 420
gtccctgtga c 431

<210> 33413
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-024-Q1-K1-B3
<400> 33413

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gccgtggaga tccaggccga cgccgggtac ggttacggcg gcgggtacac cccgacgccg 180
acgccggcca ccccgacccc gaagcccagag aagcccccca ccaaggggcc gaagccggac 240
aagccagcca aggagcaca gccgcccaag gagcacgggc ccaagccgga gaagccgtcc 300
aaggagcaca agccgacgcc gaccacgtac actccgagcc ccatactcac gccggcgacg 360
tacctccca cccggaccct ctcatgcctg cccaaccac atacactt 408

<210> 33414
<211> 289
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-024-Q1-K1-B5
<400> 33414

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aaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
ttacatacaa aaaaataaaa aataatataa atataatata atgtaaacta aattgaatga 180
actggacaac gttttacaat ggcaaaaaat gtaaaaaccc tgaacgctaa taaacttaaa 240

tgacattgca ccatatacca ctttctacat ctgacataat atccaaaag 289

<210> 33415
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-024-Q1-K1-B6

<400> 33415

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accccgacat ccccgaccgc atggcgccca aggcggagaa gaagccagcg gagaagaagc 120
cggcggccga ggagaaggcg gagaagacga ccgcagggaa gaagccaag gccgagaagc 180
ggctgcccgc gtccaagtc tccggcaagg agggcggcga gaagaagggg aagaagaagg 240
ccaagaagag cgtggagacc tacaagatct acatcttcaa ggtgctgaag caggtgcacc 300
ccgacatcgg catatcctcc aaggccatgt ccatcatgaa ctcttcatc aacgacatct 360
ttgagaagct ggccggcgag gccgncaagc tggcgcggtg caacaagaag cccaccatca 420
cgtcccgcga gatccagacc tncgtgcgcc tagtcctncc cggagagctc gccaaagcacg 480
ccgt 484

<210> 33416
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-B7

<400> 33416

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gaactgagtg tattgtacct gtatgataga ggacaacttt tctccttgtt taactaatca 120
aataggcata aacatttttc cttggtttcg tatgcctttt ttttctgggt ccttggettcc 180
tgggccctaa atgaaatttt taccaaggta ctaaagtaat ggtc 224

<210> 33417
<211> 469
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-B8

<400> 33417

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gcgctgctgc ggccacgcgg cacggcgccct ccgccgcccc gctcgggtccc gtggcgatct 180
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gctaccgcgc gcctcccgcg ggcgcgtacg gctaccctgc gcaggccgcg tacggctacc 360
cggcgcaggg cgctggaggg agggccggcc gtagcgggct cgggtcggga gccgcggggc 420
tcgccgtcgg cgcggtcggc gggctggccg ncggcgccat catcggtc 469

<210> 33418

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C10

<400> 33418

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gcggaagagg tgcgcgcggg ggaaccgagc cgactgatgg agccgacggc ggcgcccgc 120
gcctgcgaga tcgcgcgcct gccggatgac ctctgtcgg cggcgctcgg ccggacgggg 180
ccgctggacg cctgccgcgc cgccgcggtc tcgccggcct ttgcgcgccg ggccgacgcc 240
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cccgccgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360
cccgtcctcc tcgccgacgg cctcacgagc atgtggctgg acagggtcac cgctcgccaag 420
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<210> 33419

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C11

<400> 33419

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120
aaaaaaaaata aaagatcagg ggggtgcttt tttagctcc taacttaaga gctcggtaat 180
acggacgcca aaggacaatt aacgggccgc caaattaaaa ttggggccc gggaaaacaa 240
aggctccgac ggggtaaacc cctggttgca acatccttat ctgccagggg tcaa 294

<210> 33420

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C3

<400> 33420

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gcaggctcag gaccgacaga acagaccatc agagagccct gttacaccat ctaggcagct 120
cttggtcct aatgtacatt tctatgctgg agagtgggat gaactcccaa caattctctc 180
agttgtgcag ccacctgcag caccaacaaa cctcagcttc tctgaggatg attttatgga 240
tggtgcagt agccatgatg gaagcagtgt agttggatc gactactgcc ccaggagatc 300
taggaagctt tctggtagcc gtgcatggga gagagctagt gagaccgacc aggcagatag 360
tggtatgat gtgatcttga tttctgatgt cccctacgca gctaactctc tgaagaagct 420
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<210> 33421

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C4

<400> 33421

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gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgtcg gatgttgagt 120

accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg 360
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<210> 33422

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-C7

<400> 33422

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ttcaagcgcc ttcagcagga cccgcccgcc ggcatcagcg gcgcgccgta cgacaacaat 180
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ttcaagctga ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt 300
gtttcgagga tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggacatccta 360
caaaaccagt ggagccctat atatgatgtt gcggcaatat tgacctctat tcagtccctg 420
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aacaagc 487

<210> 33423

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D11

<400> 33423

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cggatatggt taactgatgt gccgacacat ccaaactctc cacctaacaa tgtcttccga 120
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gacccacgga ataagtcaaa taacgtttaa agtactggta tttcacttgc accccgatgc 240
taccacttat cctacacctg tcaagtcatt tcacaaagtc tgactatagt caagcttaac 300
agggtcttct tt 312

<210> 33424
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D5

<400> 33424

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180
cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300
atggggcgact gctcgggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420
caggctcgcc gggcaagcgc tgaacctgaa cctggtgggc gaccggacc tgggtggcgag 480
ag 482

<210> 33425
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-D6

<400> 33425

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180
cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240
gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360
acagacggac ccaccctact atggacgagg acccatacag ctaactcata agtacaacta 420
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<210> 33426
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-024-Q1-K1-A12
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gaagtccctc ggtttgtctg cacaacctct tcggcggggc gagcgttggt cgcgtgtccc 180
agtgcgactg gcccactgt ttgcgcgtga cgcgcgtccc cgcaggcccg tactgtgccg 240
acatgcttct cgcgatgcat cactagcccg aggtgatgta cgaagtgctg aagcagatga 300
ccgactgcgc cagggtcgtc gtccctcgccc gggccttcag cgcaatgccg tacct 355

<210> 33427
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-G4
<400> 33427

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gtgcgctcgc atcttactcc gttcgatgtg cgggtgctctt tcggtcgatg gaccctacct 180
tcggctgaac cgatttcagg ggtggcgggc cgttaagcat aaaagataac tcttttcgag 240
gcccctcgtc ggcgttttcg gacttccctaa cgtcgccgta tgccgtcacg tacttgctcg 300
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<210> 33428
<211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-G5

 <400> 33428

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 acctcgacct caagaagggc ggcaacaggt tcatcaagac cgccgcatac ggccactttg 240
 gccgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag gcatccgctt 300
 aagaatgtat tgggaagtgc actggacatg aggttcatct tcgtctggct ctgctgatac 360
 ctgcaaggat tgctgctgct gctgcccctg gatgtgtgtt tgatcagtga ctgtctgctc 420
 tgctccat 428

<210> 33429
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-G7

 <400> 33429

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 cgggggcccc tgcatagacc aggcgccttg cgccatgaac ctcacctccg acggcaccgg 180
 cgcgaccac ggctgtact gcaactacct cgaggccacg gtcacggggc cccacctcgg 240
 gtgcgcgcag cagctcttca ccgtcgagca gtggctcgcc accgacgcgt cgccctaccg 300
 cctgtacgcg gtcgtcgaca agtgcaagac gaagcggcag gagccgcgac gctcgccggc 360
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 gaggctagct 430

<210> 33430
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G8

<400> 33430

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tccttttagct aacgattctg tttgttaatt tcttcgggtt tttttggagt acagtgatca 180
tgaacctgtg ctctaattgc cacaagggga ttattactca tcctgatcag gccaatctgg 240
tattcttcgg ttatttcttg aatttttt 268

<210> 33431

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G9

<400> 33431

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gaggtgcgcc gtggagcttg gcatccccac ggcgatctac cgccatggcg gggctgcctc 180
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgg tccttcgccg 240
cctgctgcgg ctctcgcgg cgctcggcgt gttcacgcgc gacaagcaga gcacggagga 300
ggagcgggtac cgcacacgcc ccgtgtccta cctcctggtg gacggcatcc ctcacgagga 360
ccacatgaac cacaccgctc tgggtgctcac ctgcacctcg acgcgctaca tcgaggcgg 420
gatagggctg gcgga 435

<210> 33432

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H1

<400> 33432

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ttctggggct ggaaacaaaa atgccttcaa ggcacttatt gctgcagaat acagtggggt 180
caaggttgag ttgaccaagg attttgagat ggggtgtctcc aacaagaccc ctgagtttct 240
aaagatgaac ccccttggga aggttcctgt tctggagact cctgatggcc ctgtttttga 300
gagtaatgct attgcgcgct atgttgctcg cttgaaggat gacaaccctc ttttcggggtc 360
ttcccgtatt gaacaagccc acgttgagca gtggatggac tttgctgcaa cagaagttga 420
tcctagtgtt ggatg 435

<210> 33433
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H10

<400> 33433

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<210> 33434
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H11

<400> 33434

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gccggaacga tgagttctcc agagtgtccc atcagcaaatt ggagttcttc tccagcaacc 120
caagcgccga cacactcaac cgtctccgtg gagaagtcag cgagatacac accgtcatgg 180
tcgacaacat agagaaaatt cttgacagag gcgatcgcat ctgctcctt gtcgacaaga 240
catccaccat gcaagacagc gcctttcact tccgcaagca atccaagagg ctccgtagag 300
ctctttggat gaagaatgcc aagcttctag ttgtgttgac agttgtcata gtagtgctgc 360
tctacttgat catttctgct ttctgtggag gcctttcctt gtcacatgc agatcatgag 420
ttacacac 428

<210> 33435
<211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H12

 <400> 33435

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 agcaacccaa gcgccgacac actcaaccgt ctccgtggag aagtcagcga gatacacacc 180
 gtcatggctg acaacataga gaaaattctt gacagacgcg atcgcatctc gtccttgac 240
 gacaagacat ccaccatgca agacagcgcc ttctacttcc gcaagcaatc caagaggctc 300
 cgtagagctc ttgggatgaa gaatgccaaag ctctagttg tgttgacagt tgtcatagta 360
 gtgctgctct acttgatcat ttctgcttct tgtggaggcc ttctctgtc atcatgcaga 420
 tcatgagtaa cacacc 436

<210> 33436
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H2

 <400> 33436

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 aagagggccg ttcatccga gttaaggaag ccatggagca caaggaggct gggcgccaag 120
 ccccgaggag acccatcctc tgcataata actgtggctt ctccggcagc gcggcgacca 180
 tgaacatgtg ctctaagtgc cacaaggaga tgataacgaa gcaagatcag gccaagctgg 240
 ctgcctcctc tatcgacagc atcgatgaac gcagcgacgc cgtcatggaa ccggttggtg 300
 ctggcaacaa cacggtagta gcttggtccc aagtcgagtt gcaaacaatg aacgtgcagc 360
 agccccgc 367

<210> 33437
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-H4

<400> 33437

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tgcatcggac tgaggcacac tgcattgcag ttaaggacgc catagtgcac tacgagctac 120
cgagccatcc cttctatgga cccatactat gtgtgaataa ctgtcccttc ttcagcagcg 180
cggccacat caacatgtgc tctaagtgcc acaaggagat gattacgaac cacgatcagg 240
ccaagctggc tgcctcctct atcgacagca t 271

<210> 33438

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H6

<400> 33438

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cagagggccg ctgcatccga gttaaggaag ccatggagca caaggaggct gggtgccagg 120
cccccgaggg acccatccta tgcatagaata actgtggctt cttcggcagc gcggcgacca 180
tgaacatgtg ctctaagtgc cacaaggaga tgatt 215

<210> 33439

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H7

<400> 33439

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gccatctatg acatctgccg ccgttcctt gacattgagc gccaaccta caccaacctc 120
aacaggcttg tgtcccaggt catctcatcc ctgactgcct cctgagggt cgatgggtgct 180
cttaacgtgg atgtgaatga gttccagacc aacttggtgc cctaccgag gatccacttc 240
atgttttct cctatgtccc agtcatctct gctgagaagg cctaccacga gcagctgtct 300
gtggccgaga tcaccaacag cgccttcgag ccatactcca tgatggccaa gtgcgatccc 360
cgccatggta agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat 420

gtgaatgctg ctgt

434

<210> 33440

<211> 193

<212> DNA

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<400> 33440

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tggacaaact gcattgcagc tcggcacggc atagtgtata cgatccgacc gatcgatccc 120

ttttattgac aaacaaaacc tgtgcacaag ggaccttcac tgaatgccct gcgcaccatc 180

aacatgtcta tct 193

<210> 33441

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-H9

<400> 33441

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gggccgtgaa cgatgagttc tgcagagtgc tccatcagca aatggagttc ttctccagca 120

acccaagcgc cgacacactc aaccgtctcc gtggagaact cagcgagata cacaccgtca 180

tggtcgacaa catatagaaa attcttgaca caggctatcg catctcgctc cttgtcgaca 240

agacattcac catgcaagac agcgcctttc acttccgcaa gcaatccaag aggctccgta 300

gagctctttg gatgaagaat gccaaagctc tagttgtgtt gacagttgtc ataatagtgc 360

tgctctactt gatcatttct gctttctgag gaggcctttt cttgtcatca tgcatatcat 420

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<210> 33442

<211> 529

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-024-Q1-K1-A10

<400> 33442

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t g t a c t g a g c t g g g g a g g g c c g t c a c g t g g t c g c a g c c g c t t g g c t g a c g c c t t a g a 120
t g c t t c t g t g a n n a g g g t t c g t a g c t t g g t a g c a a c g c c c t g t c a g g g a c c c t g a t a a g 180
a a t g g t g a a t c t t a c t g c c t g a t g c g g g t g c g a a g c c c a g a g g t a a a t c t c t g a g t g g a g 240
g c t t c g a a g n c g a t a c c t g a c a g t g c a t a a t c g t a t c g t c a t g a c t t t g g g t a t a t g g g g 300
c c g a t a a g a c t t a a t g c g a a c c c a t t c t t a g t a g n n c t g g t t c c a c t c a c g a a g t c t t c c 360
t c t c a g g g a a t a g c t g g a g t c c c a c a a c g a g t g t c t a g t c g g g t a a a g g c c a a t g g a t t a 420
g t a g t g c a t c g g g g g c c g c a a c g t c c c t t c g a c g t a t t c t c a a a c c t t t a a a t a g t g t a g 480
g a c g g g c g c g g c t a g c t t c g g t g a a g c c g t g c n c a c g g a a t c g t g g a g c 529

<210> 33443

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-024-Q1-K1-A11

<400> 33443

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c t t t g t a t a t c t c c a a a t t g t t g c a t g a g g c t g g a c t a c c t g a g g g t g t t g t g a a t g t c g 120
t t t c t g g t t t t g g c c c t a c t g c t g g t g c t g c t c t t g c t a g t c a c a t g g a t g t t g a t a a g a 180
t c g c a t t t a c t g g a t c t a c c g a t a c t g g a a a a a t t a t t c t c g a g t t g g c t g c a a a g a g c a 240
a c c t t a a g a c a g t g a c a c t g g a g t t a g g a g g c a a g t c c c c t t t c a t c a t a a t g g a c g a t g 300
c t g a t g t t g a c c a t g c t g t t g a g c t t g c g c a c t t t g c c c t g t t c t t t a a c c a g g g a c a a t 360
g c t g c t g c g c t g g a t c t c g c a c g t t t g t a c a t g a g c g t g t t t a t g a t g a g t t t g t g g a 418

<210> 33444

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G3

<400> 33444

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa agaaaaaaga aaaaaaaaaa aagggggtag ctttaatatata attcagagtt 180
tacttaatttt aaaatggaaa tggaataaaa tttttttaaa ggacaaaaaa tcaaaaaaat 240
tgaggagggttt ataaaaataa gtcgtttggg aaaaaaacgg gttgtaacga attcagtttc 300
ttaaaaaaaa agccgcttaa tgaacagttg aaaaaatcga acaaggaagg attaaaaacc 360
gtttgaagggt tattttggac attaaaagg 389

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<210> 33445
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D12

<400> 33445

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acaaaccttg agcttgacaa cactgatgag tttcgactca cccaaattga attttcacag 180
gatagcttta tgacatgggc agctgaaaag attactgacg actgacgctg ctctagtgca 240
ctctcggcac cattttggta catgaagaaa caactgatct gtttttttgt gggacggcag 300
tgaagtctgc aacaacagtg gtctcgcttt tgctttgagt agctctggtg cacataaaat 360
aatttatatg aaatatgaaa ggctgaggaa tcatgcggta ccaactgtgg agtactgttc 420
agtgtaggat tggccttgg 439

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 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-023-Q1-K1-D2

<400> 33446

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 tcgcgccctg cctctcctac gcccgcgga cgggggtccg cccctccgcg tcctgctgta 240
 gggcgctcag gaacctcaag agcgccgncg gcaccgncgn cgacaggcgc gccgnctgca 300
 actgcctcaa gaacgccggc aggggctca gc 332

<210> 33447

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D7

<400> 33447

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa atgaaaatat aaatacacat aattagataa agaaaaataa 180
 aaagaaaaaa ttgaaagtta cagaaataaa aaaaaattaa aataaactaa agaaaaaaa 240
 cattagataa a 251

<210> 33448

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D8

<400> 33448

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 caacttcgcc accgccgagc acaagagccc cgagcacctc gtccgcaacc cgtttgggtca 180
 ggttcagct ctgcaggatg gtgacttgta cctcttcgaa tcacgagcaa tctgcaagta 240
 cgctgctcgc aaaaacaagc cagagctggt gaggaagga aacctcgagg aggcagcaat 300
 ggtggatggt tggatcgagg tggaaagctaa ccagtacacc gctgcactga atcccatcct 360
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gaacc

425

<210> 33449
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D9

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gccaaactta caaccaaaca atttggttacg gttttataac gtcctgaatt ccaaaactct 180
tatacctaacc aacttaatat gcttcgatta caaccactt aataaatcta acatcattaa 240
aaataattct atttcaatta cacctttaca acacacactt atcctacaca tcttaattca 300
tttcacattg tatcactaca t 321

<210> 33450
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E1

<400> 33450

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gggattgaat tccgcaatgc ttgacaaata gtgaagttca tactgttata catgagcact 180
gagcagtata tgccaagact tttttattct gtcgagaagt gataactatt ccttagatct 240
gctaggtgtg tttgggtgtc aaagggtttt gtgggtgttaa gtgttgcaact tggctagact 300
atagactatt taaagtgtgt tgatcagaga cgaagttggg agttgggaca t 351

<210> 33451
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E4

<400> 33451

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tactttctac acttccagtt agcaccaaca catacctaata taagcatgat aataacgttc 120
gtatgatatc tatatgtgct gcttatgagg aaactacaaa gccca 164

<210> 33452

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-E5

<400> 33452

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aacacttctt aataattgtc tatacgattg aagctgattt gattggtaat tgtaaacaac 120
ttgtctttgg atctttgaag tcaaacaag tcagttggtt gaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaataa 240
aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaatgtaat cactttttaa ggttctaat 300
tttataaagc ttgcttgctt gataataaat ttttttttcc gtcccttaaa ttaa 354

<210> 33453

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<212> DNA

<213> Zea mays

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<400> 33453

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gtcctcaaag ctatttgtgc tggttttgag gaaactacag aaccaaagt ttgcctgagt 180
gatgatatag agacaaatga gtgtctgaat gacaacgggg gctgctggca agacaaatct 240
gctaagttaa cagcctgtaa ggacaccttc cgtggtagag tgtgtgaatg cccactttc 300
aatggcgtag aatttaaagg cgatggctac agcaattgtg aacctgctgg accaggaaaa 360
tgcttgatta accatggaag atgttggcat gaaactcgca acggaaaaac attctc 416

<210> 33454
 <211> 144
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-E8

 <400> 33454

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 accgttgtcg ccgcccagtt tggacgaaca caggcatcat agtgaataat aatgtcatatc 120
 gtatgatata tatatTTTTT gctc 144

<210> 33455
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-E9

 <400> 33455

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 ggcgtccggc caccacaaaa cagaagcatg cattcgaaag aatggaggta caacctcttc 120
 cagagactga tgatggagat ccgacaatgg aaagtaagta ttttgacagc aggatcgatt 180
 tcttgaagca ctgccaaagac aatcaattcc agtttgatac cattcggcgg gcaaagcact 240
 ctacaatgat gattctgtat tacctacaca attcaacctg ctctgcttgc catcgtgccg 300
 tggaccaatg cttggtgtgg ccgtgcctag agtgcctagg ctgcaccttt tgtgggtcaat 360
 gctataaaca aaatgggtcaa ggcttgcata ttcattgaatt aaggcataat gacactagag 420
 aaacttcaca g 431

<210> 33456
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-F11

 <400> 33456

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cactataaaa actatatctt tatacactct ccttttcaca aaactacctt attattatcg 120
ctcatataga catcttctac attcttctct acccttaaaa atctttcact cccaatcttc 180
ttactagatt cttttaatca actaagtctt taacacccca tgtacttacc cctttctctc 240
acaacctaatt attaaactta acactaaata tcaattacat aac 283

<210> 33457

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F2

<400> 33457

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gctattggta ccatttttaa ctaccaattt aaacgaccac taatctttta attattatca 120
ccttacttcc tcttatatat atatatcttg ctctttataa aacttaaatt tctttcaatt 180

<210> 33458

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F4

<400> 33458

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acaggcagct gacgggcagc atcccggcgg ggctgggtgca ggggcagttc cggtcgctgg 120
tctgtctgta caaccagctg acgggcccga tcccgcgcga cgacgcgcgc gacgagatca 180
acaccgtgga cctctccac aacaagctga cgggcgaccc ctcccacctg ttcgccgctg 240
gcgggcccat cggcaagggtg gacctgtcgt ggaactacct cgacttcgac ctgagccagc 300
tggtgttccc gccggagatg acgtacctgg acctgtccca caacctcatt ccgggcaccg 360
tgccgctgtc gc 372

<210> 33459

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-F8

<400> 33459

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ggtgacttca ctctcgggga cgggaggggt ggtgaatcta tctacggctt gaagtttgcg 120
gatgagaact tcaagatcaa gcacactggg ccaggccttc tgtccatggc caatgccggg 180
agagatacaa acggatccca gtttttcatc accacagtga caacaagttg gttggacggg 240
aagcatgtgg tgtttgga ggtgttgtct ggaatggatg ttgtgtacaa ggtcgaagct 300
gaaggccggc agagtggaga gccgaagagc aaggttgtga tagcagatag cggcgagctg 360
ccgatgtgac ggcgagctga actgatgttc catcccgaag catgatgata agaagttgct 420

<210> 33460

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G1

<400> 33460

aaaaaaaaa aacaataata aaaaaaatac taaattataa caaaaaataa aaaaaa 56

<210> 33461

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G10

<400> 33461

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gctcttacct aggattctga cttcgacgag ctcagtcatc atctgatata ccgtatcttc 120
actcaaatgc ctttacaat aatctcgatc acacaaatct gttaatcaac ggcttctcta 180
ccactctcta taaccactat tgcgaatcaa ccattactat tgtactac 228

<210> 33462

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G11

<400> 33462

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ctctcttagt ccagttacaa tgatttctgg agagtgtctc atcatcaa atgtagttcttc 120
tccatcaacc caagctccta cacactcaac catattcttc gataactcaa ccatatacac 180
accatcactt tccacaacat atataaaatt ct 212

<210> 33463

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-G12

<400> 33463

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tgacaggact cgccgcgggg accatctggg gcaccgtcgt cgccacctgg tacgacgtgc 120
cccgtgtgga gcgccacgtc gcgctccctg gccttatccg gacgctcaag atgtgcggca 180
cctacggggc caccttcgcc accatcgggg gcctctacat cggcgtcaag cagctcgtgc 240
agagccagcg caggaagcgc gacttcgtca acggggccgt cggcgcgttc gttgccggag 300
cctctgtctg cggttacaga ggaaagagta ttcagtca 338

<210> 33464

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-D10

<400> 33464

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ccgcgagaag cgagagcatg gacaccagg tgaagcttgc tgttggtgtg aaggtgatgg 120
gcaggaccgg ctccaggggt caggtgaccc aggtcagagt gaagttcttg gatgaccaga 180
accgtctcat catgaggaac gtcaagggcc ctgttcgtga gggtgacatc ctcaccctgc 240
tcgagtctga gagggaggcc aggaggtgc gctgaagccc tgggtggcctt ggatgtaatt 300

ctgttaattt tgttctatgt ttgtcgaact tgccgtgtga ccttcacaac atctgctttg 360
agatttactc agcctggatt gcagttttat tttatgttcc tgctggaaag tgacttgccg 420
agacatagtt atcatt 436

<210> 33465
<211> 301
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-G2
<400> 33465

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ggtgacttca ctctcggcga ccggaggggt ggtgaatcta tctaccgctt gaagtttgcg 120
gatgagaact tcaagatcaa gcacactgct ccaggcctcc tgtccatgta caatgccgtg 180
agagatacac acggatcgca gtccgtcatg accacagtgt caccctttcc gatggacccg 240
acggatggtg cggacttcct gacgtcgtcg gctggcgata cgttccggat cgtgaaatct 300
t 301

<210> 33466
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-B12
<400> 33466

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aagagagttc atccactacg gttctggaag accctgttga gaacaccctg cacggtgccg 120
cccatgcctg ctcccacggc ttcagcgagg tatgcggcct cttggaaggt tttctgaaga 180
tcaagagcat cttttattct gcggttcaca aacgtccaag tatcacggaa ctctggagaa 240
ttgtctgtca acatatacac ctctgagggt gagtagatac caccaagcac tgtacgtttc 300
acataccaat caatatctga ccagaaatct ccagcagcat gccatatctc atccaccagg 360
atagctcgct gcttcaagct tggtgagacg tttgctgggt gagactgaat actcagtgcc 420
tagttctaga tcgcgagc 438

<210> 33467
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-B2

 <400> 33467

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 ggatctgatt atcttggcac ggggtgtcctt aaggctgtca gcaatgtaaa taacattatt 120
 gcaccatcaa ttgttgaaaa ggacccact gatcagggtg agattgacaa cttcatggac 180
 catcagcttg atggaacctc caatgattag ggctggtgca aacagaatct tgtagcatat 240
 gccatccttg cggtttcact tgctgtgtgc aaagcttgag ctatggtgaa gaatattcct 300
 ctttaccagc acatctcata tcttgctggg aacaaaactc tgggtgcttcc tgtacctgcc 360
 tttaatgtca ttaatg 376

<210> 33468
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-B6

 <400> 33468

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 atatatgagg ccttggagtt gagggatgga ggatctgatt atcttggcaa ggggtgttctt 120
 aaggctgtca gcaatgtaaa taacattatt ggaccagcaa ttgttggaag ggacccact 180
 gagcagggtg agattgacaa cttcatggtc caacagcttg atggaacctc caatgagtgg 240
 ggctggtgca aacagaagct tggagcaaat gccatccttg cggtttcact tgctgtgtgc 300
 aaagctggag ctatggtgaa gaagattcct ctttaccagc acatcgcaaa tcttgctggg 360
 aacaaaactc tgggtgctccc tgtacctgcc tttaatgtga ttaatggagg gtcacatgct 420
 ggaaacaagc ttg 433

<210> 33469
 <211> 430

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-B7

 <400> 33469

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 gagaaacgtg agatttatga tcagtatggt gaagatgccc ttaaggaagg aatgggcggt 120
 ggaggatccc atgttgatcc atttgacatc ttctcatcat tttttggacc ctcttttggga 180
 ggaggtggtg gaagcagcag gggaagaagg caaaggaggg gagaagatgt agtccaccca 240
 cttaaagttt ctctggaaga tctttacaat ggcacctcaa agaagctctc tctttcgcgc 300
 aatgtcatct gctccaagtg caagggcaag ggctcgaagt ctggtgcctc aatgaggtgc 360
 cctggttgcc agggctcagg catgaaagtc actattcgtc agctgggccc ttccatgata 420
 cagcagatgc 430

<210> 33470
 <211> 122
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-B8

 <400> 33470

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 ctaaaagatc ctctccactt gaagttgtac caaatggtat atgatatcgc ctttcccttt 120
 cc 122

<210> 33471
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-023-Q1-K1-B9

 <400> 33471

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 gtgtggatga aacggagctc gggcaggcga ggggtgaggg gacggctcgg atacagtggc 120

ggggtggtcg ctgaggcccg tgcgagcatt aatggcgagg tgacggggcg tgaggcggtg 180
 aacgcgcagg tgatggcatg ggcgggacga aggtcctgac aggcggggcct gggctgccag 240
 tgggagagcg gcgcgagagg gagagaggtg gagccgctga acggtggggc cggtttgtca 300
 ggtgcggcgc ggcgcgcgc agctgggccg cttgggtcgg gggaggagag ggggaaagag 360
 catgcgcgac gcggcttggg ctaaaatcgg cccatccgan ggggggaggg ttttttcttt 420
 tt 422

<210> 33472
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-C11

<400> 33472
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 tcttttaggga ttgttaagga gaaccaaagt cttcacaaag gctctgttga gattgaagat 120
 gatatttgcta ctcttgctga taagagtatt tttcctgggg attttctctg ggtcagagac 180
 tctgaaatat atgagaaccg tgacattgca gatgagattt cagaacaaaa ggatgatatg 240
 ctacaggctg aggaaagctt tcgaggaact ctgttgacat caactgtctc agctcagctt 300
 tgtcaggata tagcttttaa tgaatgagtt cccacatcag atatgtagct gcatactctgc 360
 tgacttaagc tgggtgaagcc tgcttgggaag tgatgctgac tagcttattc tttggtttt 419

<210> 33473
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-C12

<400> 33473
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 gctcggggcg ctggctgtgg cctgtgggct gggcggggcc cctttaaatg ccggccatac 120
 gcgcggccta aagcctccag agccacgctg cttcccggcc gaagcctccg tccgcgccca 180
 cggtttccat tccatcccc aggcttgccg cgactcgcca cttgcaccgc cggccggttt 240

cgccgaacgc ctgcgcacca cccgcgcgcg gagacctgca tataagcccg ccgcgtgtcg 300
tccggcgctc ccgggacagg cgatccgttc gtcacccgct gcaaaccacc aggcaccagc 360
tccgcgcgca gaggccggag gactacgacc gacgagggcg acgaacacca aggctccgaa 420
gtccgaggag gcaggaa 437

<210> 33474

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C2

<400> 33474

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acccgctgga cgacaccaag acgtggccgg aggacctgct gccgctccgc cccgtgggga 120
ggctggtgct ggaccggaac gtggacaact tcttcaacga gaacgagcag ctggcggttcg 180
gcccggggct ggtggtgcc a gggatctact actcggacga caagatgctg cagtgccggg 240
tgttcgccta cgccgacacg cagecgtaca ggctggggcc caactacctg atgctgcccc 300
tcaacgcgcc gcgctgcgcg caccacaaca accactacga cggcgccatg aacttcatgc 360
accgcgacga ggaggtggac tactaccgt ccaggcacgc g 401

<210> 33475

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C3

<400> 33475

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gaaaaggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
ggaaaaaaaa taaaaaaaaagg ggcgggttta tttaaagggt ccaagctaaa ataaagcttt 180
tttataaggt aatgtatttt taattgggtg ccctaattta aaaaaagggg cgactggtaa 240
aaaccttggg tttgggaaaa aaattggttt acccaaatta aacgttttga aagaaaatcc 300
ctttttgaaa aggtgggtaa aaatcaaaat gcccaaaact tttgcacttt gaaa 354

<210> 33476
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-C4

 <400> 33476

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 gaagaggaac aagagaaaaa aaaaagaaag aaaaaagaaa aaaaagagca gaaaaataaa 120
 aaaaaaggaa aaaaaaaaaa aacaaaaaac aaaagaaaaa aataaaaaaa aaaataaaaa 180
 aaaaaaaaaa aggaaaagaa agaagtaaat agaaaaaaaa aagggaagaa aaggaaaaat 240
 aaaaggaaag aaaagaaaaa gaggaacaag aggaaaaaag aatgaaaaaa aggaacagta 300
 aaagacaaag aataaaagaa aaaaaaccaa agcaaaaatg aaaaaaaaaa accaaacaat 360
 ttaaaggaat gaaaaaacga atgaccaaaa aaaggaaaat tgagaaaaaa aaaaacgaag 420
 gaaaaacgaa tgaaaa 436

<210> 33477
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-C5

 <400> 33477

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggaaaaa aaaaggggca 180
 taaaattaaa atgaacgaaa gaaaaaaaaa aaaaagtaac aaaggaatga aacaaaaaag 240
 aaagacaaaa acacaaatgt aaacaacact taatgccgaa aaaacagatg gaaaaacccc 300
 aatgatgacc aggggtgaaa aacgccctaa atcaagaggg atctaaacaa gtgcgtatcc 360
 taaaagggga ttttcaaat acttgtctaa agaattggga aaatg 405

<210> 33478
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C6

<400> 33478

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ccaagccaag ccgcgcggcg tcaactccaa accctagctc gccgcagtc gccggtgatg 180

tcgtcccctt cgtcgtcccc tgcgcggagg cgggagatgg gggagggcgg cgagctcccc 240

gtccccgtgc ccgtgccgcg ctccgtcgtc ggcgacgaca aggtcctggc ggcggcgcag 300

cacatcgta agtcgtcgc cacgtccaag aacgcgcgcg acgacatgat ccgcatcctc 360

tccggattcg accaccgct ctctccatc acctccgacc tcttcccgtc cccgtcccc 420

<210> 33479

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C7

<400> 33479

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aattctcttt ttcaccgtgc ctttccactc accacc 96

<210> 33480

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-C9

<400> 33480

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gcagaagaca atacaaagat gtccaagggt gcggacgaga aggcggcggc agtgggcgga 120

ctcggaggag ccggggcggc tgacgcggcg cagcagcagc agctggcagc aggggaggcc 180

gctgcggcgc ggggtgcggc cgtggagacg ctgcttcgcg cggcacccgt ggggctctgc 240

gtggccgcca tgaccgtcat gtcctgaac cagcatagca acgagtaagg cgccgtcgac 300

tacttcgacc tgggaggctt caagtacctt gtctacgcca acggtctctg cgctgactac 360
 tcgctgggtat ccgcgttcta cactgacgtg ccgaggcctg ccaccgtggt gcgctactgg 420
 ctcgtcttac ttctcgacca agtggttcacg tacctga 457

<210> 33481
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-D1
 <400> 33481

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 gaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggtaa atcttttaag aatggaaaaa 180
 tattgtaatg atacaaaaaa attaaaattt tattaaattg ggcttaaaat aaataaattt 240
 agagccaata ttaaaaaaac cgtactgggt aaaaaaacag ggtgtcaaaa aaaaaagggt 300
 attggaaaaa aaactttttt tgaaaattaa gcgaaaaaga aaaaaagggt actcgaagcg 360
 tttttgaaaa aattggcaac actctaaagg caaatgaata ccctttt 407

<210> 33482
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-023-Q1-K1-B11
 <400> 33482

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 atgttgagta ccgctgcttc gtcggcgggc tcgctgggc cacggacgac cactccctcc 180
 acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga 240
 cgcagaggtc ccgcggcttc ggcttcgtca cttctccac ggaggaggcg atgcggaacg 300
 ccatcgaggg catgaacggc taggagctgg acggacgcaa catcacggtc aacgaggccc 360
 agtcccgcgg cggccgtgga g 381

<210> 33483
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-G2

 <400> 33483

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 ggtatggcct ccatagctca taagcagcat ttacccctct taggaattag gataagacat 120
 gtaatgccta cattattgtc ttggttcata ttgcataacc attggagcaa tgaaagcctc 180
 acccattttt ggattgtcta gattggtttg acgctgaaga agctatttga agagggtgta 240
 gtgaagcgac gagatctggt tatcacctct aagttgtggt gtgctcaaat ctctggtgat 300
 attccaatat ttatgtctca tgcattctcat tttggaaaaa ctcatacgaa aagcagattt 360
 caagtggaat ttggtcttca gtgtatatac acctacaatt tggatatttct atgtgatttt 420
 tttgtttgag tctgaacatc aataatttat gg 452

<210> 33484
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-G3

 <400> 33484

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 tgtatggcct ccatagctca taagcagcat ttacccctct taggaattag gataagacat 120
 gtaatgccta cattattgtc ttggttcata ttgcataacc attggagcaa tgaaagcctc 180
 acccattttt ggattgtcta gattggtttg acgctgaaga agctatttga agagggtgta 240
 gtgaagcgac gagatctggt tatcacctct aagttgtggt gtgctcaaat ctctggtgat 300
 attccaatat ttatgtctca tgcattctcat tttggaaaaa ctcatacgaa aagcagattt 360
 caagtggaat ttggtcttca gtgtatatac acctacaatt tggatatttct atgtgatttt 420
 tttgtttgag tctgaacatc aataatttat g 451

<210> 33485

<211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-G4

 <400> 33485

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 gctgaagtga aatggttccc ttctcttcaa tgctgaaaaa aggggaaaaa aaactatgtg 120
 aaaatgatgg tagacgtgtc tgggtcagta ataagagttt ctaaaatctg aatgagattt 180
 gaatcgctct ccgttgatga atttctcatg gtctgtgtat tcc 223

<210> 33486
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-G6

 <400> 33486

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<210> 33487
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-G9

 <400> 33487

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 cacagggtag caggattgct tctgagggtc tgaagcacag agtctttgag gtttgcctag 180
 ctgatcttca ggggtgacgag gatcaagctt acaggaaaat caggctccgt gctgaagatg 240
 tgcagggcag gaatgtgtc acaaactttt ggggtatgaa ttttaccact gataaattga 300
 gatccctagt gaagaagtgg cagacattaa tcgaagccca tgttgatgtc aagacaaccg 360
 acaactacat gttgcg 376

<210> 33488
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-H1

 <400> 33488

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 ggccgccgcg gccgaggcgc cggcgcccag ccccgctctcc gccgccgtcg cggcgtcgtc 180
 gcccttcgcc gcggccctcg tcgccttcgc cgtcgccttc ctcttcgccg ccgtccgcca 240
 ctgagccgat ggggcctcgt gcctgcaggc tacctagcag tacttcgccg gctgctgccg 300
 ncgtcgncta gatctattta atggagtgt atccagtagt actagtagta gtgagatttc 360
 ttcggtgctg tcgtgtcgtc gtcgcattt 389

<210> 33489
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-H10

 <400> 33489

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 tggctcgaca tagtctgttc tattegtccc gaaccgaatt ttcgctgggt tgtttgtaag 180
 taaagtaaatt attacacgat ggagctcgag ag 212

<210> 33490
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-H12

 <400> 33490

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aaccgccaaa aaacctacca ctgttgcaaa ggagccaggt aaaactccga agatgaagaa 180
gcttagaaaac ctcagatcca gatatggaca cagttcacia catattctcg ttgccacac 240
ccaattcadc cgaggctctg ttacacactc tatgtggaac accacaggtg t 291

<210> 33491
<211> 199
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-H2
<400> 33491

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gtacggtgca tcagatgtcc ctggacagta aatctggcta aacgacaatg actgtcggcc 120
ggatcggaac cacaagacat aactcttgac ccagaacgag gcgccgtgtc ccgacttcct 180
aacatcgact tatgccgac 199

<210> 33492
<211> 88
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-H3
<400> 33492

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gggcggtgca acagatgcgg ctggacaa 88

<210> 33493
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-H5
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gtagctagta gctagccact cggtcgtgta gtcattcagcc ttctgatcgt caccatggc 120
 cactgccgag gtccagaccc cgaccgtcgt ggcgaccgag gaagcgccgg tggaggagac 180
 cccggctccg cccgccgtcg tgcccagga ggctgcccc gccgccgagg ccaaggtgga 240
 ggagccagct gcccggcg agaccgagcc agctgccgcc gctgagcccg agggggcccc 300
 cgtggcgcg gaggaagaga cgccaaagga ggaagagacg gcaaaggagg cggagccgga 360
 gccggagccg gcggcggttg aagaggtgaa ggaggaagcg 400

<210> 33494

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H6

<400> 33494

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 ctgttggttg cccgcaacgg tagcggcagc gacggcgact gcgagaagga cctggaggag 180
 atccggagcg tggggtcgtt cctgcggcac gcggtggagg agaaccggaa gctctgttac 240
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<210> 33495

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-H8

<400> 33495

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 gaccatgggt gctaactaga tctccgactt agagaaaaac actaataata ccgcacatgc 180
 tatcttttca ccactagatt ttcaaacgat cgccatcacc aatagcatga atctcatgca 240
 cctgtccaac tccgtcaaac tactattctt cta 273

<210> 33496

<211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A11

 <400> 33496

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 tgaagggaaa ttatcggtt tctgataatg gtttggtcac aatcatctcg gctgcacctt 180
 ctttatgttc cataaatctg tgtgagtgtt ctcttctcac ttaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa aaca 294

<210> 33497
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A12

 <400> 33497

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 cattgcacaa tcaatcattc cgtagttgga ctccgttcct gcatttctga aggtgcagtt 180
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 ctttctgaga ctggtggcat tcccattggt attgggaaaa attcacatat cagaaaagca 300
 atcattgaca aaaatgctcg cattggagaa aatgtgaaga taatcaattt tgataatgtc 360
 caagaagcag taaggagac agaaggatat tttatcaaaa gtggaattgt cacggtgatt 420
 aaagatgc 428

<210> 33498
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-A3

 <400> 33498

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catccgtcgt catccgtcaa atcagttgat acgaagacat tagaggatat aatcggccct 120
tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180
cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240
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tgctactacg actgctggct ccactccgaa agcaagcagc ctttctccta ctggccgcac 360
ttgaagaaat cttatatcag tttgaggaaa aactccaagc tgaaag 406

<210> 33499
<211> 64
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-G11
<400> 33499

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gttg 64

<210> 33500
<211> 359
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-023-Q1-K1-A5
<400> 33500

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aatccggct atgggttatg tatatttgca atttgtctta tgaagacatt ctaccatag 120
atctgccta tgactttact gatttttgc cactttctag tgctgcctta gtttctcaca 180
tgcatgttga ctagatgcca tttactaata tctaccgcta ctgattctgt tcttactatg 240
caatcttcta taagctacct tattacactt atgctagacc cagatacct gtatgaccac 300
atcctttact gctactacta cttttacctt gattttcgaa atcgcgcatt ctttcttct 359

<210> 33501
<211> 429
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-023-Q1-K1-A9

<400> 33501

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gcagctggag caggagagaa tagaagctga gaaaaagcgg gtaaaagaag acgctcaaca 180

acttgctcga gtttttgaaa ccattggcgc tttcaaactc cctcgcaaag gtggaaaagg 240

aaaacagatc tttgggagtg tcacggcaca ggatgttggt gacataataa agtcacaact 300

taatagggat gtcgacaaga agctggtgac ggttcagaa atccgtgaaa tcggagagta 360

tgttgcagag atcaagcttc acccagacgt gatagcgcga gtaaggcttg atgtctatgc 420

gaaatgagc 429

<210> 33502

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-B10

<400> 33502

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acctcttcgg cgggcccagc gtggtgcgcg tgtcccagtg cgacggggcc cactgcttcg 180

ccgtgacgcg cgccgcccgc ggcccgtcct gcgccgacgt gctccgcgcg atgcagcacg 240

agcccagaggt gatgtacgag gtgctgaagc agaggaccga cggcgccacg gccgccgccc 300

tcgcccgggc cttcggcgca atgccgtacc tgggtgttcga ccccagggcc gccgtgatgt 360

ccggcggcga gagcagcgac tcggagcggt cggccgcccgc cgccgccgag gaggaagacg 420

atgaggagtg ggagttcatt 440

<210> 33503

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D12

<400> 33503

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cagtcaccct ctgtaccgtg agtctgagct tateccaggag aactaccttg gtgtgagaaa 180
tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240
ccaattcacc cctctgggcc gaatgcttta caaggcacca tctgatggga aatgggggga 300
gcatgagctc gactacctgc tgttcatcgt cggggacgtg aagggtgcagc cgaaccacga 360
tgaagtcgct gatgtgaagt acgtgaaccg cgaggagctc aaggagctca 410

<210> 33504

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-022-Q1-K1-D5

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tccgctggtg ggcgcgctcc gcgaccgct cgacttctac tacttccagg gccaggacaa 180
gtacttcgag tcccgcgtcg agcgctacgg ctccaccgtg gtgcgcatga acgtcccgcc 240
gggccccttc atggcgcgcg acccgcggtt ggtggcggtc ctggacgcca agagctntcn 300
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<210> 33505

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D6

<400> 33505

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gatatggcaa cctaaaaaaaa aaagaaaaa

89

<210> 33506

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D8

<400> 33506

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acacgaaaaa taaaaaacaa cactacagga cctcctaaac aaaatccact accaaggccc 180

atgacaagaa aatcaaaacc aattgcaaag cgctaccgaa tacaaaaatc aaaagcaaga 240

acataaaaaa aaagcgccac cggaacacc aaccaaacca aaatccaaac ccctacccca 300

aaaaccccct taccggaacc gccaa 325

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D9

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gacggctcca agccccaggg aggcggcgta cactacggca ccttcaggg gccgcccagc 180

taccgcccc cgcgcccgcc gccgagctc tccgcccacc accgcggcga ctaccaggcc 240

gttcccgtc gagattccga agcaggtgtg cggggacgta gccatgatcg acttcctgt 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E10

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tctttccctt gcattcaact tcatacctct tctattgggt cacttttttt cttttttttt 180

tccctctttt tacaacttct tttctggcaa atccctggcg ttccctatct taatcccttt 240

gcttcccatc cttgtttccc tatttgggca tttatcttaa aggcccgaac caatctccct 300

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<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E2

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gctcggtgaa tatcggcgag gaggtgtggc tcacatgcct ctcccacgcc ctactaccg 120

agaccgagga ggtcatgggg ctccctctcg gcgacgtcga gctttccagc aaggtcgcca 180

cagccctggt atggggggcg tcgccgcaga tgaggtgcga gcggaagaag gaccgcgtcg 240

aggtcaaccc cgagcttctc gccgccgcac ccgcgcaagc cgagaaaatg acggccacca 300

tc 302

<210> 33510

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E3

<400> 33510

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tcaccgtgga gaagatgctg acggtgacgg cctcgggtgca ggcggcgccg gccatcggtc 180

agatgtactt ccagcgcgcc ctcgacgacg ccggcgactt ctteggcaag acgctgctga 240
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<210> 33511
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-022-Q1-K1-E5
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 aaaatcccaa cgcttcctcc aaccttcct tttttaattc cggcgcgcc gttttaacgg 180
 ctccatgttt acttacactt ccttgcaact tcttattttt ttttaggggt cacttaattt 240
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<210> 33512
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-022-Q1-K1-E7
 <400> 33512

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 atcgggacgg cggcgcaggg cgcgctgac gacaaggact acaaggagcc cccgccggcg 180
 ccgctgttcg agcccgggga gctcaagtcc tggctcttct accgcgcggg catcgccgag 240
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<210> 33513

<211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-F1

 <400> 33513

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gccatacctc gccgtcgccc ggcgtccag cccagggcag gagaggaggc cactctgact  180
gtcactctga gtttcgctc acctgagtac tgacggacga catgggagaa gttgaggaca  240
tgtacacca agacgggacc gtggacatga aagggaatcc cgccgtgaag aagggcaccg  300
gcaactggcg cgctgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact  360
atggcatgag caccaacctg gtgaactaca tgaagaccg acttggccag gtgaactccg  420
ttgtctncaa caacgtcacc aactggcaa                                     449
  
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<210> 33514
 <211> 126
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-F11

 <400> 33514

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acctta                                           126
  
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<210> 33515
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-F12

 <400> 33515

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gccatccctc gccgtcgccc ggcgctccag cccagggcag gagaggaggc cactctgact 180
gtcactctga gcttcgcgtc acctgagtac tgacggacga catgggagaa gttgaggaca 240
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gcaactggcg cgctcgcccc tacatcctcg cgaacgagtg ctgcgagagg ctggcttact 360
atggcatgag caccaacctg gtgaactaca tgaagaccg acttgccagg tgaactccgt 420
tgcccttcaac aacg 434

<210> 33516
<211> 291
<212> DNA
<213> Zea mays
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<400> 33516

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tcgaagggtga ccagacctac agcgagaagc ctggccacga ttttactctg acagcgctcg 180
ttggaagtgt ggatgcttcg agctacgacg cgcttggtgt tcttgggcgga cgggctccag 240
agtacctggc tctgaacgat aagggtcatca gcttggtgaa agccttcgcg g 291

<210> 33517
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-D11
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ggaccaggtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300
agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 360

cgtcgctcggg gctatcaaca actacacgga ccagctctac agctacgggc agaagacttc 420
gtataacctg accgagagcc tgatgt 446

<210> 33518
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F7

<400> 33518

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tccaagggtta ccagacctac agggagcaac ctggcccaga ttttactctg acaacgtgcg 180
tttgcatttg cggacgctgt aagctacctc ccgc 214

<210> 33519
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-F8

<400> 33519

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tacctacatc accagattta cacatatcaa cttaccatca aatcaaatat aaccatatcc 180
atth 184

<210> 33520
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G1

<400> 33520

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tactcttoca tacacagtgt gctgtactgc aagaccact tctagcagct cttcaacgag 180
accttttagct tcttcaagaa cttcacgcca tgtggcaagt cttcagacaa tgggtgaactg 240
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<211> 431
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 33521

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gtgctgaag tggaggccga ggccctcaagg attgtagggc gatacgtgcc gaagaagaaa 180
accttgcgga gttgggatat tcgcggttct aatgttcgtt tgaaccgtgt tttcgagtgt 240
aaccgtctgc catatggcgg ttaccgggga gacgacgatg ctggtgttgt cgaccgccgg 300
ggaaaagggc ggctgctgcg gtcgacgagg gcccttcgcg gggagtgtgt ccggccgcga 360
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ctgtcgattt g 431

<210> 33522
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-022-Q1-K1-A2
<400> 33522

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tgatgatggc ctgctcgcc acggccgtgg ttccgttcca ggggctcaag tccacgcgaa 180
gcctcccagt cgccggccgt tctccagaa gcctgggcaa cgtaagtaac ggcggaagga 240
tccggcgcat gcaggtgtgg ccggcctacg gtaacaagaa g 281

<210> 33523
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-A3

 <400> 33523

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 ccgacttctt gaaaattgct tcaagagcta taattgacag atactttgga caaagtgctc 120
 gcttgattat agaaaatggt tggctatgca cgtgatcacc taccatgcat catgttcatg 180
 gatgaaattg atgccattgg tcggcgaaga ttcagtgagg gaactagtgc tgatcgtgag 240
 atgccacgga cattgatgga actccttgaa taattagacg gttgtgatga actctgaaag 300
 gcctagatga tcatgggcac gaatagacct gatgtactgg ac 342

<210> 33524
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 33524

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 tctgaacgaa ccgaaccctg ctgcaactgc gatagaagag cagaatgctt tggcgctagc 180
 tattgttccg atagatgatg ctccgaaagc tgctccact tttggaaatg gagtcactgg 240
 ctgggaactg gcccttgatg cagcaccaag ttcaaatgag accgccgttg cccaagcaa 300
 gaaactggcc ggtggtctgg acttgctgac cctcgacagn ctgtacgacg ag 352

<210> 33525
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-A5

 <400> 33525

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<210> 33526
 <211> 294
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 33526

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 tgaagatctg gggtcacttg gtgtcaaaga gcttgagcag cttgagaagc aacttgattc 180
 atccttaagg cacataagat ccacaaggac acaacatatg cttgatcagc tcaactgatct 240
 tcagaggagg gagcanatgc tgtgtgaagc atataagtgc cttagaagaa agct 294

<210> 33527
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A8

<400> 33527

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 ggcaggccac gggcaccttc gggctgacgg gcgtgtcggt gtgggaggcg ctggtgctgg 180
 agatcgtgat gaccttcggg ctggtgtaca cgggtgtacg cacggcggtg gacccgaaga 240
 agggcagcct gtgcaccatc gccctcattg ccacgggc 278

<210> 33528
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A9

<400> 33528

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ttcgcttccc ctgaggcaac ggctgtactc ggcacacaga cctggcttat gagcaggatt 180

tttcagccaa gccaaagtgcg tatggttgct acctgtattc tgataggcca cttaatgaca 240

ctggctccca gttattgact tatgaagaat ggcttctcga tggaagagaa acaataatag 300

gaaaatagga agctgcaatc agaaccggct aactagacaa aaggagagag attggctcaa 360

ttcaatatga ggaatttcta ccgattattg agtggtttgt ttccttttcc ctgaaaggta 420

aaatggttta 430

<210> 33529

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<212> DNA

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<400> 33529

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tgcccatctt cctccgttaa ccatggcgac ccagatcagc aagaagaaga agttcgtcag 120

cgacggcgtg ttctacgccg agctcaatga gatgctgacg cgggagctcg cggaggacgg 180

ctactccggc gtggaggtgc gtgtcacacc gatgcgcacg gagatcatca tccgcgcaac 240

gcgcacgcag aacgtgctcg gcgagaaggg ccgcatgac agggagctca cgtctgtggt 300

ccagaagagg ttcaacgttc ccgagaacgg cgctcgagctc tacg 344

<210> 33530

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B12

<400> 33530

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cgtcgcggcg gctcacgcag agcccccgct cgtcgctggt gaccagggcc cgtggcggcg 180
gcggcgggcg ttcacccaca ccaagaaaca cctctcgtcg tcgttgacca gaagaaccaa 240
ctgctgtgatt cgcgttgctc tttggagacg ggagacggcg gcgtgactgc gtgcaggcag 300
actcagacga caccatgatt cggcacggcg ccagcatgat atgagacaaa ccaagtatat 360
gaagcaagta tgatgtgaga gaattgcat gcaacacata atgtacatac ttgttaggga 420
gatattgctt agattaatac tacgaccga 449

<210> 33531
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-B5

<400> 33531
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gtattttttt tttttttttt taaaagaaac ctaactaaaa aaaaaatacc cacagaatga 120
acataaaaaa acacaccac aaaaaaccat caccaaaaaa caaaaaaaac aacgcaacat 180
caaacaaaac cacaaccaca acaactaaca cagac 215

<210> 33532
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C1

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aggaagagct catttgactc actgccatac atccactata tagaccgat cgacagttgt 120
gccatatcaa ttaataacgc acacgccgta actaatgaaa tcattgcgca tcacttgaat 180
gcgactacca ctacattcca ataaatgact aatagaacca tatttgcact ggaataagtc 240
attgctactc taatgcacga ctacttaaca ataggattca ccacagatac taatctgtct 300
cactatagcc gcaacaacgg cctactcatt cacatccacc gacccatgca ctcacatatt 360
gatagacata caaatcatga cttgcatatc cgtggattat ctaaagcata gctgatgtct 420

gagagagatc atatgcacta c

441

<210> 33533

<211> 203

<212> DNA

<213> Zea mays

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<400> 33533

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gtcggtcaca gggaaacaca ttgcgaacct ctacccgggc atttaatggg tcccgtaaa 180

agtcccgttg tacgcatga aga 203

<210> 33534

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C12

<400> 33534

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ggaaaggcac atthtggaag gtgcactacg caaagaatct tgagtccaac gagagtgttg 120

ccattaagat gatggacaag gacaaagtgc tcaaggccgg gctthtcggag cagataaggc 180

gggagatcac aacgatgcgg ttggtggctc ataagaacat tgttgagctt catgaggtca 240

tggcgacgcy gaacaacatc tactthgtca tggagtatgt gaaaggcggg gagctctthg 300

acaagattgg caagagtggc aagctcacag aggcgctgc acacaagtac thccagcagc 360

tcattggtgc ggtggattac tgccacagcc gaggtgtgta tcaccgggac thgaagcctg 420

agaacctthc gttgga 436

<210> 33535

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C3

<400> 33535

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gcgtcctgct cgccgccacc ttctcgccg cctccgctaa cgagcaagcc caggcggcca 120

aagaggagaa gaaggcggag gtccaagact ggcacggcgg cggcggctac ccggggcacg 180

gcggcggcgg cagcggaggc taccggggc acggcggcgg cggcggcggc ggctaccgcg 240

actgccggtg gggctgctgc aaccgcgggt accatggcgg ctgccggtgc tgctcgcacc 300

ctgatcagat accagagccc atgtaccgtc ctgagctcgt cgaggtccac aactaaatag 360

taatgagatg cgctgctact atatatacgg ggacgtatgc ccgatgggaa gcagagcaca 420

cgcgtagtac gctc 434

<210> 33536

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C4

<400> 33536

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tgcgctcggg ggtgggtgaag gggagaaatt cgtgagatct gttccggatc aggcgtgcga 180

gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg tactaatgga 240

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<210> 33537

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C6

<400> 33537

tcttactacc acgctttctt ataaccacaa cttttcttct tcctttacaa tacca 55

<210> 33538

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C7

<400> 33538

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ggagataaga ccgcgggaca tcacgatgat gccttcagca ctttcttcac ccagactggg 360
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<210> 33539

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-C8

<400> 33539

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cgacgccgtg gcaatggctg ccagcgcctt gcttgccggc ggtgccatgg cccaggaggt 180
gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca ccgtcaaggc 240
cggcgacacc atcacattca agaacaacgc cggcttcccg cacaacgtcg tcttcgac 298

<210> 33540

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-A11

<400> 33540

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gggcggcaaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgaagat 180
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 agaagcatat gctctgtctc gctaaaagac aagtactaca tatatatata tatacgctgt 360
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<210> 33541
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D1

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 gacgcatcat ccaaattgtc tgcctatca actctcatat agaatatcaa taacctacca 180
 tc 182

<210> 33542
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-D10

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 tgcccctgtt tttataaacg cttctcctgg gaaacccctg gctttccac ctttactcgc 180
 tttactatcc ttccattct ctt 203

<210> 33543
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F2

<400> 33543

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tgccacgaa tcgaagtcag cagcgtcacg tggactgagg cacgtgccat gttcgcgta 360
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<210> 33544

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F3

<400> 33544

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tctttcgtcc ggatcggccc ggtgaggcct gtccttgga ccaaaggag gggctgtgcc 180
ccggtatcga cccacggaat tatgttaaata aacgttaaaa gtattgggat ttcaacttcgc 240
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<210> 33545

<211> 208

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-F4

<400> 33545

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ccctgctccc accgacgtcg cattagtgtg tgatgatctc atttttcgtt attttttttaa 180
gctcctacac caaagaccag agtcagat 208

<210> 33546
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F5

<400> 33546

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<210> 33547
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F6

<400> 33547

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ctgctcccac cgacgtggca ttagagtatg atgatctcat ttatcgctat catattagct 180
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ccggacggag ctctgcaaca taggggggat cg 272
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<210> 33548
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F7

<400> 33548

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F8

<400> 33549

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<210> 33550
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G2

<400> 33550

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tatgagccag ttgatgaggc atgaattatt tcacgacttg gccgcgggta gtgtgaaaag 240
gcgacgctgc tatatatggt catcaccctt ggtttgtccg ttcgccagat atcacgatta 300
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<210> 33551
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G3

<400> 33551

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cgcccgccct gcacgccgc cgtgttgctg gtacgtacgt acgtatacat gtatgtatgt 180

atatgcgcgc gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtacaacgt 240

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<210> 33552

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G4

<400> 33552

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<210> 33553

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-G5

<400> 33553

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ggagcattac taccgaacgt tcgacaccaa ccgcgcggcg ctggttgggc tgtaccagga 180

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<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-G6

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aaagcgatgc ctaccatacc aactgtctgt cagtctctgg agcatttagg tggctctggat 180
caatggaagg gttgtgtcct agccagccgg caaagatgag ctgctgatgg taatgatgat 240
gataagaggc cactgctacc ctactacgta cctnctctt tgtgtgctgc catccgtccc 300
cgttagacga tcgaggagag aataacgcat agctctctgc tcccggcctg tcttctgccg 360
tcccggccgt ttaattact 379

<210> 33555

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-G7

<400> 33555

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agaaggtgat gaggaggtga ctggattcta agcgaggcta ctcatcacct gtaactttgg 120
aagtgtgagt tagttgacat actattcact tgtacctcgt gcgatttctt atacgtgtac 180
ttgtgtgctg tctatgggac gcactgagcc cataaatcga ttcgtgacta tgtaggtatg 240
tgtagtgctg gtgtgtgtac cttggatttc tttctacatc ttcttggggg ggcattgaat 300
gcctgcagta aggtatgggc taccttctgg ttgacatgcc ttgtgtattt atggtcgata 360
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<210> 33556

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H11

<400> 33556

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tgccatctat gtgcatgcat ccaactatgc tgatccaaat aatcctgact tttggaagaa 120

gtggaatgac tttgagattc agcacggtaa cgaagacaca ttcagggaga tgcttcgtat 180
 caaacggaca gtggctgcta gccgtagtca gacacatttc atactaccgg agtacttgat 240
 gcagaaggat cagagggttaa acctggacga agcagttgac actctgaaac gtgctggcgt 300
 ccctgaggac gagatggcag ccttggaaag gcaactggct cccggaccat ccactgcacc 360
 agtagcaaca ccaagcactg cccagcctc tgctaacagg acgatgaact tcgtcagtgc 420
 tggagtagag gcgcaagccg agagca 446

<210> 33557

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H12

<400> 33557

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 ctcgtcctctg gcggcggcgg caggatggcg gcttctactg cgaggacggt gaaggatgtg 120
 aacccccacg agtttgtcaa ggctactcc gccatctca aacgctccgg caagatggag 180
 cttcctgagt gggttgacat tgtgaagact gcgaggttca aggagctccc tccttatgac 240
 cctgactggc actacatcag ggctgcatct gtagcaagga agatctactt gagacaaggc 300
 attggtgttg gtggcttcca gaagatttat ggtggccgcc agaggaatgg ctcacgccc 360
 cctcacttct gcaagagcag tggtgccatt tcacgcaaca tccttcagca gctgcaggag 420
 atgggcatca ttga 434

<210> 33558

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-H3

<400> 33558

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 aaagaagaag ggcatagcaa tgtacaacgg aatgggcacc atacctgtca tacctgcgac 120
 gatgctctta agaggtcttc tagacgatgt ctgcttccgc accaccgacg gcagatacag 180

acacgcccgt cacacgacat cgactaatcg aatatgattc ccaagagctt tggcccttgt 240
 ggtccaccgt tgaaatgctt gtacttccct attaaagaca ccttccttcc gggatggcgc 300
 ttcaacgacc tggcggacaa gggcttcgcc gactggca 338

<210> 33559

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F12

<400> 33559

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 tctttggtgg cctgactaac catggaactg atcaactatg cgacaaattt catgtagtat 180
 gtcagtacag gactttctcat tctaggtgtg ctatacaaat ctgtgctatt gatgctaaga 240
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 cgagcatgca gcattgtcat gtccttgcc tatgtaatct accgtttctt gcaactgata 360
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<210> 33560

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-H7

<400> 33560

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 caccaagccc cgtaatcctt gcgacgatgc tcttcgtcgc tcttcttgte gctgnctgct 120
 tcggcgccac cgccgccagg tccagccacg cccgccacac cgacgccgac gacgcgattc 180
 gtctccccag cagctttggc gctggtggtc gaccgtggaa ttgctgagac tccgctatca 240
 gggacgcctc cctgccggcg tggcgctgca acgacgtggt ggacaagtgc tccgccgact 300
 gccaggact 309

<210> 33561
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-H8

 <400> 33561

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 agcaatcatc acttcggag atccgattta cactccatcc gaccagccta cttctgagga 120
 tcaagaagcg acatgaattt taactcttga gtgccatcag cccaatatac ctgatgttac 180
 tgttatgaca cctgtagctt gaaactacta tagtctaatt gattgatacg tcatgctttc 240
 acagctcgct ttacaactgg acattcatat cttacaagct tctatccatt tagtccgcaa 300
 ccgatttatg gtacagatca 320

<210> 33562
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-A10

 <400> 33562

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 gggagcttga aatgataaga gaaggacca cccattaatt aaactattcc atggactttg 120
 tccgcttccc ttaaggcacc ggttgctctcc ggaacaaaac tctcttataa acaagatttt 180
 ttaatccaac caaatgccta ttggtgctac actgtattct gatatgccac ttaatgacac 240
 tggcttccac atattgactc atgaaaaata ggttctctat ggaaaagaaa cactcctagg 300
 aaaatatgaa gctcctatca taa 323

<210> 33563
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-C12

 <400> 33563

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 atcggcgagc ggcggcggca ccgcggagg caaaggcaag atgttcgggc gcgcgccgaa 180
 gaagagcgac aacaccaagt actacgagat cctcgggggtg cccaagtcgg cgtcccagga 240
 cgatctcaag aaggcctacc gcaaggctgc tatcaagaac cccccgaca agggcggtga 300
 ccccgagaag ttcaaggagc tcgcacaagc ctatgagggt gtgagtgatc cagagaaacg 360
 tgagatttat gatcaggatg gtgaagatgc ccttaacgaa ggaatgggcg gtggaggatc 420
 ccatgttgat ccatttgaca tc 442

<210> 33564
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-C2
 <400> 33564

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 tttgtgaggg actaggcagg aaagcacgcc atactcttga ttctctgcca cctattgatg 120
 acttcgaagc tcaggagtac acgtatattc acctcgtgct tacgcacaat ggggttc 177

<210> 33565
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-C3
 <400> 33565

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 gccgcgctgc tcgccggggc tgcccgcgcc ggcgcgcagc acgtcatgtg gagcatcatg 120
 acccagacca tgctgcacag catgctgagc caccgctgcg acagcgggtg ccacagcgac 180
 tactacacct acgacgcctt catcgaggcc gccagcaagt tccccagctt cggcaccacc 240
 agcgacgagc agacgctcag gcggtagctc ggcgacatgt tcggccagac gtcccacgaa 300
 accaccactg gatgggctac tgctgctgat ggaccagtcg gctggggata ctgacaggtg 360

aaggaaca

368

<210> 33566

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C4

<400> 33566

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atgacggagt ccctggtgcg gaacaagccg gggatggcca gcatcaagga gatgccggtg 120

ctgcaggacg ggccgaccgc gggcggtttt gcgcccgtgc gctacgcgcg cccgatttcc 180

aacttgggcc ccagcggcaa ttggcatttt cttaacggcc ttgggggctt tggggattgg 240

aatgtcccag gtcggcaagg 260

<210> 33567

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C7

<400> 33567

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ccgcccacca atccgtcacc aaggccatcg acaaggccgg cggcatgctc ctgctgacgt 120

cgctgctcgg accgtttacg tcccacgccg tggggaccga tgcggtcgcc attcttgtca 180

gcggtgtgac gcttgacgct gacacgaagg ccgcgctcat gcagccggcg aaggtgtcgc 240

tcgtggtcga catgctcaac gagggcgcg cgacaccat gatcaactg 289

<210> 33568

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-D1

<400> 33568

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agagcaaggc catcgacatc aacccggggc agctcaagtg ctgcaccaac tgcaacttct 180
ccttctcggg gctctacacc tgcgacgacg tcaaaaagga ctgcgacccc gtctgcaaga 240
agtgcgtcgt cgccgtgcac gctnctact cgggcaacaa caagttcagg tgcaccgaca 300
cctnctctcg catgtgcccg cccaagtgt agatcagaga ggaaagacgc gcgctgctgc 360
tagctgctat agcttcgttc 380

<210> 33569
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-D10
<400> 33569

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tgacaagcat ctcttcacct ataataaggt agaggcaggg aggagagaag acgacatcaa 120
gaggggaacg gggatgagtt gcgggtttac ctctgctgtg atatattgta ggtgccacta 180
tgtgtattgt tccccctat ctactacgtg gcatagggtg tattctagta tgttgaaagc 240
tcatggtgcc gtgctgtatc aataaggtgt tatgcgcata gagtggctca ggaccagggc 300
tgcgtttgcg ctttgccact ggctgtgttg tatgtttctt ctgctgctat gccattaggg 360
tttagggatg gtgtgtggat ggcgtcgtgc ttgtagtgtt agctggattt gaagcggact 420
acatgtaggt ttgttcaatg tcta 444

<210> 33570
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-D11
<400> 33570

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tcttatctca tttatcacca atcgcgcgct taccgcattt cgacaacacc acgacggagt 120
gcatctagct ccacataggc caggccgtaa ttcagctctg aaacacatgc tgtgagctag 180

ctctgtatcg agcatggcat tcaagctgat ggtcaaattc c 221

<210> 33571
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D4

<400> 33571

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tagagcaacg agaacgaatc agctagtagc cgcccgcgta tctccatcat ggccgtgctg 120
gtcgcgagggc agggacgcga gctgcagcgg tacagccaga gcaccggcgg gcgcatcgtg 180
gtgggctgca tcccgtagcg cgtgcgggtgc gacggcgaag ctgaggtgct ggcatcacg 240

<210> 33572
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D5

<400> 33572

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cggacgcgtg cgcaagcgtc agcaccgtcg gctgcctccg tgctatctat acgctgacga 120
tacttcccta cgccaggcac gcccaagatga atcttgacag gttccttatg aatctgaac 179

<210> 33573
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D6

<400> 33573

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tagagaacaa ctaaggatcat gggcgtcttc ccgatttgg ctaaataaaa tgcctgttt 120
gatagcaagg acatcgacat caaccggtgg cagcttaaga gctgcaccaa cttcaacttg 180
tccttcatgg agctctac 198

<210> 33574
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-021-Q1-K1-D7

<400> 33574

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agcccggccg ctctcttggt cctgcccctc cggttggtctc ctttgcccat ctcatcctct 120
ctctctctct cctctctctt ctctctggcg gtcggcggtg ctccgggggc gcgaagcgcg 180
ggcttcgcgg ggcgactcng ccgcnegcgc ctgcanngtt ggtatgaaag gggtcaccca 240
cgcggcgcca accacaagcg cccc 264

<210> 33575
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D8

<400> 33575

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gggcatcttg gatgccttac tagcgtggcc ggcgaggcgg ttgtgttcac ggtggtgaac 120
cagtgccgag ttcaccctgt gggc 144

<210> 33576
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D9

<400> 33576

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gcagacaatt caaaaattct ctttatacaa aaaattatta aaaaaattaa taaaattcac 120
taataaa 127

<210> 33577
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-E1

 <400> 33577

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 caccttggag cgagtggctc ctctgacaca tgctgtcggc aatgtgttga aacgtgtttt 180
 cgtcatcggg ttctcaatca ttgtttttgg caacaaaatt agcacacaaa ctggaattgg 240
 cacgtgcatt gccatagctg gtgttgctat gtactcttac attaaggcta agattgaaga 300
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<210> 33578
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-021-Q1-K1-C1

 <400> 33578

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 gctcagacag ctgctgaatc agcggagcga gctgcgtccg cagcccgcgc cgctgcgaac 180
 cttgtgcagc tacgcattgc agacctaaag aagaattcaa gggctataa caagtacacc 240
 gacagtgctc aaaaggaaag cctcatcat gccgagggtg cacagnaacc agtatttgat 300
 ca 302

<210> 33579
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-E12

 <400> 33579

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tctttggtgg cctgactaac cttggaactg agcagctatg cgacaaattg catgtacatg 180
tcagcacagg acttctgatt cttggtgtgc tatgcaactc tgtgccactg atgctgagat 240
atgctgtgag ctctggagag cacgcagaat tctctcgga ttcaggactg gagctgtccc 300
tagcatgcag cattgtcatg ctcttgcct atgtaatcta ccttttcttg caactgaaaa 360
cccaccagca actatttgaa cgccaaccgc aagaggttga agatggtgat gattcgtgtc 420
ttaaagacgt ggcactactg 440

<210> 33580
<211> 113
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-E2
<400> 33580

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agggcgtgta aaactgtcga actatttgaa cgaaagttgt acactgcagt atg 113

<210> 33581
<211> 215
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-E4
<400> 33581

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cgcaatgggc gatccaccgc ttgcgcgtcg gtaccatgtc cgctggaagc gagaggccgt 120
acgccttctc gccctcgtcg gcggtcccg gccccttctc ccgcggctcc ggctccgctc 180
ccaccacggc cgcgacagat agcactggga ggagc 215

<210> 33582
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-E7

<400> 33582

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actagagaac aacaagcgtg aaccatggcg gacgagtacg gccgcagcgg ctacggcagg 120
tccggcgccg gcgacgacta cgacagcggc tacaacagca agtccggcac tgatgactac 180
ggccgtggcg aaggtggcta caacaagtcg ggccggcgatg acgactacgg ccgcagcggc 240
ggcgatgggt a 251

<210> 33583

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F10

<400> 33583

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gcctccacca cgtcgaggac caactcgcg gtgaactact cgaacgagat ccacgacctc 180
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gacatcttcc cgccgcacct tgggaagaag gtgatctcgg aggtgggtggc gacgttcctt 300
ctggtgttcg tcacctgcgg ggccggtcc atctacggcg aagacaacag gcgcatctcg 360
cagctggggc agtcggtggc cggcgggctc atcgtcaccg tcatgatcta cgccaccggc 420
cacatcttcg gcgcgcacat gaacc 446

<210> 33584

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H6

<400> 33584

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ccagagcatg ctgagccacc gcggtgacag cgggtgccag ggcgccttct acacctacga 180
 cgcctttatc gaggccgcca gcaagttccc cggcttcggc accaccggtg acgagcagac 240
 gcgcatgcgg tagctcgccg tctttcttca gtcagacggt ccacgaaacc accggtggat 300
 ggtcgactgc tcttgatgga c 321

<210> 33585

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H9

<400> 33585

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 ttggtaccta tggtgttctt gctggcatct catttgtgtt ttgtggaaag cttagtcctg 180
 aagctttgaa ctggttattt atcaagggat tggttggttg gtttatgcaa acagcactgc 240
 ttaaagttac tttactttca ttaggcaatg ggtaagcacc tctattggac attatagctt 300
 acgcctgttt cacttttctt ggcttgtgtt tggctgtttc tggaagaata atatgtgatt 360
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<210> 33586

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-A1

<400> 33586

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atgcangatg cttatcagca gatgcagaca cactgggttt atcagcaaca gtctgtcaga 360
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gatgcacaag tgatgagaca gtcttt 446

<210> 33587
<211> 414
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-A10
<400> 33587

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aatttcact gtggcctccc gaaccaagcc ctctccact gctaccacct tccttcgttg 120
taccggatt atttcgtgta aagatcacat gtgaccta gaattaaaac gtgagtcgtt 180
ctagcatata ttgtgaagca cgtgctggca agtttccgtt cttggcattg ggtcaaattg 240
gggtgccttg cttccgattc cctgctgcac cgtgcctatg tagcatgtaa agttgtatat 300
gctgcgaatc gtagtacagc tatatatttg tgtgtcctaa atcttgagtg tctttttact 360
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<210> 33588
<211> 339
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-A11
<400> 33588

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaataaaaa aataaaaaat aaaaaaaaaa aaaaaaaaaa aaagttggac 180
actttttaaa atcgaaatgt tatttcaata gattgacaat atctaacttt ttaaattggg 240
tcaaaataat taattcaatc aggcagaaaa tataaaataa tagggactgt aaaaactgtg 300
tatttaacaa ttctaaagtc tttatgtcaa atttcattt 339

<210> 33589

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A12

 <400> 33589

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 gatgctccag cagttgtggc tgaagaggtc actgaaaaca tgttgggtgg taagaaagtt 180
 acagttgtat ttgttctagg tggctctgga agtggaaaag gcacacagtg tgccaacatt 240
 gtggaacact ttggattcac ccattctagt gctggagatc ttttgcgtgc agagattaaa 300
 tctggctctg agaatggaac catgattgaa aacatgataa aggatggaaa gattgttcca 360
 tcagaggtga ctataaagct gttgcaagag gcaatgataa aaaatgaaaa tgacaaattc 420
 ctgatcgacg gatattcaag gaatg 445

<210> 33590
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A3

 <400> 33590

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 ttcttcatct catatttcga taaatcaaac aatctcaatt ttgatcta atatacac 180
 acaacacatt 190

<210> 33591
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-A4

 <400> 33591

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caaggatccg cgtagaagga ttactgcagc tcaagcttta agtcatccat ggatcagaaa 120
 ttataatgac a 131

<210> 33592
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 33592

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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact cctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
 ggcttcggct tcgtcacctt ctccacggag gaagcgatgc ggaacgccat cgagggcatg 300
 aacggcaagg agctggacgg ncgcaacatc accgtcaacg 340

<210> 33593
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A6

<400> 33593

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 caatgcatat ttttgtggct gaagcagatt tctgtacctt attaggtttg cacacctgtg 180
 cacttgaaaa gattcac 197

<210> 33594
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-A8

<400> 33594

cccacgcgtc cgcttttgtt ccacacgaga tttctgttct cgttgagctc atcttaggac 60
acgtgcgtta tcttttaaca gatgtgccgc ccagccaaa ctccccacct gacaatgtct 120
tccgcccgga tccgccccgc gaggtgcggc cttggagcca aaaagaaggg ccgttccccg 180
cttcccaacc acggaataa gtaaataacg gttaaaggaa tggcatttca cttgcccccc 240
gaggcttcca cttatcctac acctctc 267

<210> 33595
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-B10

<400> 33595
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cgatgactgc ttctgcagct gctgggtgtc agatgggtggc tgcacgccct tgcatttcgg 180
cctcgccagg aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta 240
ccactgctac attccccaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg 300
ttgttgtaag agcaatatcg gaagagtgtg gcccgccagg gcttcccatt gatctcagag 360
gtaaaagggc attcattgct ggagtgtctg a 391

<210> 33596
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-B11

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tccactccac ccaatggcga tgccgagggc ggagtcactc cgcttactgg gcctgctgaa 180
gcagcccagag tccgacgccg gcgccccatt cgagctcgac gagcgcgacg tgggtgtgtcc 240
ggcgtgcggt gggcagcaag acggttgtgc cgccccgcct acgccgaggt gtcattgcgca 300

cgccgtgccg ctgtacatct taggactgt

329

<210> 33597

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B12

<400> 33597

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ccacaaaata atcttccact gtgaagagct tgagcgtggc cttgtatcat ggcagctttt 120

cgctcgttg tacatagtct agtttctcat cactgtttta gattcagcac agaaatgcag 180

ctgccgtctg cagcactggt gcagctatga agctgtatgt accttactgt tgggtgacta 240

ttttagttat tgctaatacac aggggatac 269

<210> 33598

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-021-Q1-K1-B3

<400> 33598

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agttggttcg tgcaaagtca gatggctcag tgataatttg catctatctg atgacttgaa 120

tcatgctgaa ccaggcttta gttctgctag cagtctgtcc agtttcaata actacgttta 180

tttgttgata gcatttccat tcatttttctg gtatcatgcc ttggtttctt gttcaaaata 240

atatggtttg cttgcatgaa gtacatgtag tgacagtnac tagtaagagt taaacatgt 300

gagtattttt ta 312

<210> 33599

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B4

<400> 33599

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tgggtgaggg acttggctct aaagctcgcc atactcttga tactctgcc cctattgatt 120

acttcgtagc tcaaaagtac acgtatcttt aactcgtgct tacacacaat ggggttacgc 180

atgtcaagat caaccgtatt tttaaatac catctttgag aaaacggttg aaattatctt 240

<210> 33600

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B5

<400> 33600

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gtctgaagct ggggagtcca atgtgtttcg ccaggaaaaa gatgctgcag tagatggggc 120

accatctgac actgatggag cagtggctga gacccgagag gaagaaacga cagagaatgt 180

tggtgaagcg acatttagct atgaccgctt gatatctaaa tctaccgac cagtccgtgg 240

gatagattac aaacgcagag aggcatactt atcagatagt gagttccaaa gtgttttttg 300

catgaccaag gatgcattct accgaca 327

<210> 33601

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H11

<400> 33601

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ttggtacctt tggtgttctt gctggcatct cattgggtct ttgtggaaag tttagtactg 180

aagctttgaa ctgtttatgt atcaagggat tgggttggttg gtttatgcat acagcactgc 240

tttaagttac tatactttca ttactcaatg tggaagctcc tttattggac attatagctt 300

a 301

<210> 33602
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B6

<400> 33602

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cgaccccg gc tacctac act tcaagccct 89

<210> 33603
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-021-Q1-K1-B7

<400> 33603

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ccgccgacgt ctctgggtcca acgggcccga gacggcgctc cccacgctgc aggacaagca 120

gtgcgcccgc aaggccttcg tcgtgctcat cgcgcgcctt ctgcgcgcgc agctctttct 180

ncgctacgac tnccttcgacg tncaggctcg cgcctccggg ctgggggtcgt cggtcaccat 240

cacctcgctc aagaaagcca cttctgang tatgagctct gatcg 285

<210> 33604
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-B9

<400> 33604

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ggtcaaggta ttcattcatt tagtacaact attgcagtag aatgacaaca gactcgtgta 120

tagggaacta gattagctta gctacctatc taatttattg tagaaattcc gggatccgcg 180

attggacatg gaaaatagaa aaactttttc ttgggttaaag gaacagatga ttcgatcgat 240

ttctgtatcg atcatgatat acgtaataac togcacatct atttcaaacy catatcccat 300

ttttgcgcag caggggttatg aaaacccgcg ggaagcaact ggacgaattg tatgtgccaa 360
 ttgccattta actaataagc ctgtggatat tgaagttccc caagcagtgc tttctgatac 420
 t 421

<210> 33605
 <211> 245
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-E10
 <400> 33605

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 gtatagattt tcgaaatata aaaccacttc ttaattccat tcactacacc accatctttt 180
 actacctcaa acttttccac atctctatca ctactaccac ctttatattc aactttcata 240
 ctgtc 245

<210> 33606
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-020-Q1-K1-E2
 <400> 33606

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 aggaccgggt cggctactac aagaggtact gcggtatgct cggagtgggg tacggggaca 180
 acatggcatg cgggagccag aagccttacg gaggatgatg aactagtag ctgatctatg 240
 gttgctgcaa tgcaagcctt cacgtgtgtt tgccctctta cctaaagaat aaatcaagct 300
 agcagcaaac ctaccttcgg cgtgtgtcta cttgcttata atagtgtgtg tccgtgtatg 360
 agagatgatg tactgtcacg aactcacgtg tgtatgagag aggattcatg gtaagacta 419

<210> 33607
 <211> 93

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-E7

 <400> 33607

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 gtgggggtttg ccttcctcat ggagatgata gtc 93

<210> 33608
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-E9

 <400> 33608

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 cgcataatattt acagttacct tgcagttctc gtactctgca gtcattttct cactgtctgt 120
 tacaaagtac ggagagatgt aaccacggtc aaattgcatt cctccacaa catagagaaa 180
 gttctcagaa ctcttccct cttcaagggt gacaacgccc ttccgaccga ccttgctcat 240
 ggcctctgct atcatgttac caatttcata gttgttgcca gcactaactg cagcaacatc 300
 tgcaagctca ctatcttcaa cctccttaga caacttcctt agttcttcaa ctagtgtttt 360
 agctgttttc tcaataccac gagtaatctg aacaggatta gcaccagctg ccacgacctg 420
 gacaagacag tttttagctg aaaaca 446

<210> 33609
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-F1

 <400> 33609

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<210> 33610
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F11

<400> 33610

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cggcgcatat caaccactca aacactcaaa caatcaaaaa ataatatatta taaccaaaaa 120
caatacccat tatcactgct cttcttgctt tcaccctact tgtctaacat attatctatt 180
actataccaa tataaatacc tctacctcca aatactt 217

<210> 33611

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F2

<400> 33611

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agaccagcgc tgggtgctgc aagccgacca ccggcgctct gccggcgcgcc gacttctaca 180
taacgggctt caccgtcctt aacgcgacca ccgacgctgc agtgactgga tgcagcaaca 240
aagttcctta cgaccctaac ctgattaccg gcatccaagg cctgaatcag tactggagca 300
acatcagggtg cccagcaac aacgggcaga gcagctggaa gaacgcctgg aagaaggccg 360
gcgcctgctc cggcctcagc gagaaagact acttcgagac t 401

<210> 33612

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F3

<400> 33612

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ggccgttccc ggctcgctcc ccggccggca cgcggcgggc cgctctcgcc gcacgagcag 120
ctcgagcatt ccgccagcag ccgacgggtt cggggccggg acccccgagc ccaaccctca 180
gagccaatcc ttttccgaa gttactgatc cgttttgtcg acttcctttg cctacattgt 240

ttcattgtcc attaggtagt tcactttgta ta

272

<210> 33613

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F4

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gatatggact taatttaaat gctcgcatgt caagatggat attgagcttc tgtaaattag 120

agaacaggat aatctctgtt gagcgcatgt atcaatattg caggcttcct agtgaagcac 180

cattgattat tgagaactgc cgtccaccat catcatggcc tcagaatgga aacattgaac 240

tgattgatct caaggtccgc tacaaggacg atctaccatt agttcttcat ggtgtaagtt 300

gtatgtttcc tggcgggaaa aagattggga ttgtatggcg tactggaagc ggtaaactta 360

ctcttattca ggcccttttc cgtctaattg 390

<210> 33614

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-F8

<400> 33614

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ggtggacgac ggtggagacg agggacggcg cgaagctgaa cgtgcggttg ttcaagcccc 120

ccgcgtacgg aacgggggtt gagccggagc cgagggagga cgtggcggtg gtgctggtgc 180

atccctacac catcctcggc ggctgacagg gcctgctgcg ggggatggcg gagggcgtct 240

cgcggcgggg ttacaccgcc gtcaccttcg acatgcgcgg cgcgggcccgg tccacggggc 300

gggctgctgc caggggtcc accgaagtcg gggacgtcgt cggcgtctgc cgatgggtcg 360

cagagaacat caagccgcgc ggcatacttc tcgtcggatc ctcaactgga gcaccaattg 420

ccggatctgc aatttgataa gtggatgaag tgattgggta 460

<210> 33615
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-F9

 <400> 33615

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 aagaaaaatt ataaaaaat taaacactaa aaaaaaataa aaataaaata aatataaata 120
 caacacacac attaacatac aaattattac tttcaccata taaataatct catattatct 180
 taatcatatt actaatataa atattctctt ccatttaatt ac 222

<210> 33616
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-G10

 <400> 33616

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 acactatctc caatatccct tcaatctcct ttataactta tcattctaatt cctttcctta 180
 tttctt 186

<210> 33617
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-G11

 <400> 33617

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 ttgttgctga agccgtcgcg gctggccatc aaggttgggt accgccacat tgattgtgct 240
 caaatctatg gcaatgagaa ggagattggc tctttgttga agaattctgtt tgaggagggt 300

gtagtgtagc gcgaggattt gtggattaca tctaaactct ggaatactga tcatgcttca 360
taagatgtac cactggc 377

<210> 33618
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G4

<400> 33618

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gagaaaggta aaaaacacta aaaagggtcc gactctaaaa cgccttccct tgccatgcta 120
tttcttttct atcgtgtcgc ctaatcta atcactgccc tcttcgttta cttcggtaac 180
ccctgtattg tcccttgctt tgccccatct tattcgtttc gcttcccatc c 231

<210> 33619
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G7

<400> 33619

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ttgtagggtt taaaaaaaca caagaaaaat gatataaaaa gggctcaccg ttctacagca 120
tccaagtttt ctaacacatg ttcaaaaccc aatgaatttt tccaacctga caccgaattt 180
caactgaatg ggccccgata aacacggcct ggattctaaa aaccgtggca ttgccccact 240
taatccccctt ggagtaaata ccctatcgtc aaatttg 277

<210> 33620
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D9

<400> 33620

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 tggatcgta tacccaaatc gattctctag cagcaaattt atgtgatgtt gtgacacata 180
 tacctactgt cgataaagtt gccatagcca atgcaaattc tcaacacca taactccatc 240
 ttca 244

<210> 33621
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G8

<400> 33621

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 tggacaacct gcccttttgt acatcgtgcc cttcactctt ggcaccttga tcgcgcttgg 180
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 gcatatgcat atgcccgtgc tgccgacgac cccaaactaa ccacagggtc agtagaaaat 300
 cagcaagggt tcctagcttc tgcaaaatat tgtatttgcc tgctggtaat atgcaaacca 360
 aattaatgcc agtttaaaat gaggcacctg cttcttggag accgcaaagt ctgattgtga 420
 gctaactgct tgccaatgtg ccttcattca tgt 453

<210> 33622
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-G9

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 aagaccaccg cacacatccc tatatgcggc tctctaactt gcgatggtea ttatgtcctt 180
 gtgaatcaat tccacggttg gcccatcaat gatcattacc gatacatcta ttgtactcaa 240
 atgtatgcgt atgagaactt gataacctct tcgtttgaca atctgttcca ggtcgggtata 300

tcgtaacccg aggatctgtg gattacatct aaactctgga atacttgatc atgc 354

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<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H10

<400> 33623

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aaaatgcaca ttcggtcacc tactgccagc atcattggca tctctggtgc atactctcat 180

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<210> 33624

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B7

<400> 33624

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gacttgatg acatgatcga ttgtggattt gcctatccat cattttacat agtaatgaaa 180

atgctcttgg cttgacatac tatgttctat tcgtactgaa ccgaattttc gctgggttgt 240

atgtgagtaa agtagatagt acacgatgga cctcgatagg acataatttc tttttgatct 300

agggaaagaa tctatgggta gtgaaaacta atatattagg ccaactttgt aagtctattc 360

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<210> 33625

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B9

<400> 33625

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ttttctttt agtttttggt attatttcgc attcttttta ctttttcaat tcttcaaaaa 180
ttctctcgac tgaattcacg tcagaacacg gaatcataaa gatcaatttt ttgcatcggt 240
tttattaaaa ttgttttgct aacaaaacat agaaataaaa accaaaaaat tgaaattcct 300
tatccgtttt ggcgaattga actgcttggt caattgtggt tgttgaattc tatgcttatg 360
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<210> 33626
 <211> 414
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 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C10

<400> 33626

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agtccacggg aggggaaggct ccaggaagc agcttgccac caaggctgac cgtaagtctg 180
ccccaccac tgggtggagtg aagaagcctc accgttaccg tcctggaact gttgccctcc 240
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ggctcggcag ggaaattgca caggactttc aaaactgatt tgcgtttcca gagccatgcg 360
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<210> 33627
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C11

<400> 33627

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taagcagaag ctccatgatg tagattggat tctcacttaa aggcataatat atctaataacc 180
tctcacagga gctacgcacc actttatggt gaatctagcg cgatgaccaa tagtgtgaat 240
caactgttgc tatgagacta cgtggaatca cta 273

<210> 33628
<211> 422
<212> DNA
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<223> Clone ID: LIB3068-020-Q1-K1-C2
<400> 33628

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ttatctggcg aaactgctca tggaaagtat ccactaaagg cagtcaaggt gatgcacact 180
gtggcactca gaacagaatc cagcctttat aaccaacta cttctcctag tcttgttgca 240
tctgcacagg gtctacagaa tgaggacttc tccgcaagcc agctaagtaa aatgttctga 300
tctcatgcat cgatgatggc caacaccctt cgcacaccaa tcattgtatt tacacagaca 360
ggctccatgg ctgttctcct gagccactat ccgtccttgt ctacactatt tgcatttaca 420
aa 422

<210> 33629
<211> 455
<212> DNA
<213> Zea mays
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<400> 33629

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cgctgaagta ttgatcgaga tccaggatac actcaagtca ccaccaccgg agaacaggac 180
gatgaagaag gcagcaatgt acgggatcgg agccaccacc atcttctaca tctccgtcgg 240
ctgcgctggg tacgccgcgt tcggttcgaa tgctccgggc aacatcttgg cggcaggcgg 300
tctgggtccc ttgtggctcg tcgacattgc caacatgtgc ctcatcctcc acctgatcgg 360

tgcataccat gtatacgctc agcctgtctt cgctattggt gagagggtggg ccgtctcacg 420
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<210> 33630
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C4

<400> 33630

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 aaggattcta ttaaatcaag aacggcaaca ataaaaagct tctcgcaact tcccaccgtt 120
 tctcctccct ttgg 134

<210> 33631
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C6

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 ctccgccgtt tgggtggttc cgcgccttgg ccgcgcgggt tggatccgag ctccgtgcag 180
 cagctccgcc gcgatacgta tcgcatagga ttccactgga ttcagctgct gagcagggta 240
 ctggaagggtg gatttgatac tagctctgaa cagccagtag aatttctcaa atactgtcca 300
 ggatcatggc ttctctctgt gatttctgtg ggaaacaaaa gtcaatgatc tactgcagat 360
 cagatgcggc atcattgggc ttatcatgcg accgtaat 398

<210> 33632
 <211> 103
 <212> DNA
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<223> Clone ID: LIB3068-020-Q1-K1-C8

<400> 33632

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ggctggtggtt atttgagatc cagcaagacc tggtcagaag tgg 103

<210> 33633
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-C9

<400> 33633

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atgccagaat atttatatgt ctcatTTcat ttccttTga agggatatta tcttaaagct 180
ggaatatggt atattcatca tattatgttt aatctagggt gacccttgat atgaaataaa 240
tcatattgtc aggagaatac ttgtgtgcac ccccatcctc tgacctagat gtgttactca 300
tttctgacct tgctcagaat aaaaaattct tacc 334

<210> 33634
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D1

<400> 33634

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agttgagggt caagaagaaa gaaaatggga ccttgaaatt ggcagctccg aaggaaggaa 180
agaagggtat gcttgagctt gatgcataga tttttgagggt tgctccttct ttgctcttag 240
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taaggccggc actgaaggat attgtttggg tttggcaaga tgatcaacac cagtgtcac 360
aatcaccaga gtctctatta tcaccaccgg agacacaaga tgaatt 406

<210> 33635
<211> 391

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-D2

 <400> 33635

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 tcatgacgat gcaaagaaga tggacaaggg actgaagaac cgttacacgg tttgatccca 180
 aagagtagta gcatgtaggg tggttctatc cgattccgta gcaccttgca gagtgtgttg 240
 aaggttctct atttgctgag gagttgctta agcataatct aacatgatgt cgaatgtatt 300
 cctgtatgtt ccatatgtca gtcacctagg tgttgttttt gtctcagcgc tgtgtgctat 360
 atatatatat atatatatat atatattgga t 391

<210> 33636
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-D3

 <400> 33636

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 gtgcgagccg cgggaaccgg cggtagcgcc cccgaacctc tccgtgccga gagtgtccca 180
 gtatctgtac ctcttgagcg cgtgggtcgc ctgcgcgggc gtggctgccg ggaccgtggc 240
 gcgcggggcc ttgggcgact cttccccgtt ggtctacggg ttctctcaaag tctcgatcgg 300
 agccctcggt ttaccgcgc tgctcactct cgtcttcgcc ctgcgggtct tgcgcgccat 360
 gcttgcggtg gggttcagac ggctactccg cactcacgcc agggagattc agatccatgc 420
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<210> 33637
 <211> 458
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 <223> unsure at all n locations

<223> Clone ID: LIB3068-020-Q1-K1-D5

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tttccaaaaa agaaatgggt tgtccaaaca aatgaaacaa gtttcctttg tggatggact 180
ctctgatgat gctcaagttt ccaggaaga aaggctattc cggctgtgga ttaacagcct 240
tggaatttca acttacatca acaatgtgtt tgaagacctt agaaatggat gggttctcct 300
tgagggtgatt gacaagattg ctccaggctc agttaattgg aagatggcaa atcgcccacc 360
aatcaaatta ccattcagga aagttgaaaa ctgcaatcaa gttttgaaga ttggaaaaga 420
actaaaattt tctttggtga atattgctgg anatgata 458

<210> 33638

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-D8

<400> 33638

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atattctcca gaagagatat ggcatgatca agcaaagtga acaagtattc ctttttggat 180
ggactctctg atgatgctca ctttttcaag gttgaaaagt catttctgct gttgattatc 240
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<210> 33639

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B6

<400> 33639

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gacttgaagg acatgatcga ttgtggatth gcctatccat cattttccat agtaatgaaa 180
atgctcttgg ctcgacatag tctgttctat tcgtcccgaa ccgaattttc gctgggttgt 240
ttgtaagtaa agtaaatagt acacgatgga gctcgagagg acagaatttc tttttgatca 300
agggaaagaa tctaggggta gtgaaaacta ataaattagg ccaactttgt cagtctatcc 360
ttaatataga aatcaaaagg ttaaaataag aaaaagtcta atttttggaa gattggaaaa 420
acttttttga tgaaaagtct atcttgatca attgttcata 460

<210> 33640

<211> 302

<212> DNA

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tgtcgtccaa acagctgacg gtcccaaccc cgctcgacta cgctctcgac gagatcaact 180
ctgtagacct ctcccacagc tagctgacgg gcgaccgctc ctaccagttc gacgtcgggc 240
ggaccagtac tcatggacga cctgtcgtgt aactacctgg actttgacct gatccatctg 300
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<210> 33641

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H6

<400> 33641

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acgttcaggc ggtgctccta caagttcctt cagtaagact gtctccgta ggcctaataa 180
aacaggggac acagaattgt agatgacact gtttatcact ggttgaagag agaagtttga 240
aatacgggat ctactggaga tagcctaact gcggcatgaa aagagtgaaa caatgacacc 300

cattcctcca tcatgatcct tcggcaaccc cacttagtcc atgccttcac atcctatattt 360
ccatgagcaa agctttcatg atggtgttgg tagtgtgtga catcctttta agtactagca 420
agtgaatttt gaacctccat tccatgtggc attaacc 457

<210> 33642

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H8

<400> 33642

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tgccagcaga cgcgcccggg gctagcttgc attctgactt agacgcgtgc agtcataatc 180
cggctcacga tatcttaacg cactggctt ttcaaccaag cgcgataacc aactgtgtga 240
atcaacggct cctctcgtac taagctgaat tactatgtgc aagcgggtcat cacatgggac 300
ctaccaacct gtctgacgac aagtgtaaac 330

<210> 33643

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H9

<400> 33643

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<210> 33644

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A1

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cgatctaccc ctgaagggtg cacaaatacc aagcatgata aaggtaaca aagttctaca 180
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 ctggaaaaag tgcatttgat gctgcaaaag acattatgga agctcttatg atcaaacata 300
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<210> 33645

<211> 369

<212> DNA

<213> Zea mays

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 atcatgagga cgagatcaat cccgctcatg agctcttgct tgatcactcc atgaaagaga 180
 aagacactga ccgaacagac tactacggtc tataccttga aaaccagtgc cgatttgctc 240
 tgcaagtcac cgaagctgct ggctatgaga tggacgcaa catatacagg attaagctat 300
 atgcattggc ataatttca aaggctggac actatgatcc aaaagaattg gcgctctaca 360
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<210> 33646

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A11

<400> 33646

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 ttgatggggt tgagatccat ggggctcatg gctacctgct tgagcaattt atgaaagata 180
 aagcgaatga ccgaacagac gaatatgggt gatcccttga gaaccgctgc cgatttgctt 240
 tggaagttgt tgaagctgtt gttaatgaca tagggcgga cagagttgga attaggctat 300
 cgccattcgc agaatttca gactctggag actctaattc aaaagaattg gtgctttaca 360

tgatgaatgc cctcaataag tatggtattc tttactgtca catgggggaa ccaagaatga 420
agactcgtgg agaaaaaact gaatg 445

<210> 33647
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A12

<400> 33647

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agttttgaat actgtttaga tccatggatc tcatgtctct cctacttgag ctctttatga 180
aaaataaatc ctctga 196

<210> 33648
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-020-Q1-K1-A2

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atttaacatc ttctgtgttg gaatcatttg ttatcgtggt ctgtactttg agctctatga 420
ttncatcaag ccaagttgct ttactggcaa cctt 454

<210> 33649
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A3

<400> 33649

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atgagcctat gaccagccga agacatagtc gaggatgtag acgatgatga gcgagagcgg 180
gtagagcatg taggcgacga ggcagggtcca gagcgggaac gtggtccgga agctggtgaa 240
gagggccatg acgacgcaga ccagcaggat gatgagcacc ttcgacgaga agtcccacgt 300
caggttcttg aagtagatga gcgcatgaa cactccgagg cacagcgtgt tgttcatcgt 360
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<210> 33650

<211> 236

<212> DNA

<213> Zea mays

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<400> 33650

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gagagggaaa aataaaaaaa ataaaaaaac actataaaaa tacaagacat tactgtatct 120
attactatct atattaatat gctcatcctt ttaaataattt aatttttttt accgttattt 180
tttaataattt accttttctt ttatgtcact atattttaac ttattaatca tttttt 236

<210> 33651

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A5

<400> 33651

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cgatctaccc ctgaagggtg cacaaatacc agccatgac aaggtaaca gagttctaca 180
ggtgctgagg gtcacaagt tccgcttaga cgtaatagcg gacatgggtg ggtaacttct 240

gcagcaagtg catttgatgc tgcaaaagac ataatggaag ctcttagaag caaacatact 300
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<210> 33652

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A8

<400> 33652

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gaacaggaac gctgtgaccg agctctgtat gctacatata cgacatggcc atggtcggaa 120
gcgctgttgt gtctgcgacc tacacagaat ttcggctgga aaaagcgccc gagatggaca 180
tatgacccaa tctgagccct ttcaggtgat gaaatctgca tacagtggga atccatttgt 240
cgtgggtact aactaga 258

<210> 33653

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-A9

<400> 33653

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ttgatgggggt tgagatccat ggggctcatg gctacctgct tgagcaatth atgaaagata 180
aagtgaatga ccgaacagac gaatatggtg gatcccttga gaaccgctgc cgatttgctt 240
tggaagtgtg tgaagctgtt gttaatgaga taggggcgga cagagttgga attaggctat 300
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<210> 33654

<211> 439

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-B10

 <400> 33654

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 tgttcgagag gctgctgcaa aagatgggtgc catactgggtt tgtttctacc ttaatggcga 180
 ctagcatata tgtgctattg tgcttgctat cacaagtacc tagaaaaatg agaataaaat 240
 gccagataac tttgtcatgg ctgctatatt ataaatgcaa gccatccata gtgtagtgat 300
 tgcaatgttt attaacatgt agtaccatct agtattctag tgtttattaa cgattttatat 360
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<210> 33655
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-B3

 <400> 33655

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 ggggttggga agacttcctt gatgaaccaa tatgtgaaca agaagttcag caatcagtag 180
 aaggctacga tcggcgcgga tttcctcacc aaggaggtgc agttcgagga caggctcttc 240
 actctgcaaa tatgggacac tgctggccag gaaaggtttc agagtctcgg cgttgcattc 300
 taccggggag cagattgttg tgctcctagtc tatgatgtta attctatgaa atcatttgac 360
 aacctgaaca actggcgaga agagtttcta attcaggcta gccatcaga tcttgataat 420
 ttcccttttg ttctggtggg taacaaagtt gatgtagat 459

<210> 33656
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H4

<400> 33656

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tgacaacacc aaatttgagg atgactgccg agctattatt gggactcaat catatgtcct 180
ctttacttta gataaactga tttataaagt tgtgaagcag cttcaagcta tagcaacaga 240
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gttctttgac ctagtttatc attgaa 326

<210> 33657

<211> 322

<212> DNA

<213> Zea mays

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<400> 33657

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cgaggtagag aagacttact tgatgaacca atatgtgaac aagaagttca gcattcaaga 180
catggctaca atcgacacgt atttcctcac caacgaagtg caattcgagg acaggctctt 240
caactctgaa atatgggaca ctgctggcca gtaaagggtc cagagtctcg gctcagcatt 300
ctaccgacga gtacattggt ga 322

<210> 33658

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E10

<400> 33658

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tcacggttgc agctcgatca tcgccaagca gcacgtgggc atatgctcta gccttaggta 120
gtagctagac actcggacga gtaatcatca gtctattgat cgtgacaaat tgacactgcc 180

gaggttcaga cacacaccgt cgtggcgacc gactgaagcc cagtg 225

<210> 33659
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E11

<400> 33659

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tgcagtttaa cagtgcaggc acatgaggat ccgatgtaat tacgtcatct gcaagctcca 180
tccagatcac acgcactcgg atcgcagtcc caa 213

<210> 33660
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E2

<400> 33660

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aaatacaacg aaacgtattc gtgtaaaatg aaattccaat agaataagac cggagtcctt 180
atgtcccggt atggacggcc tgctttaata aaaatactcc gtctggcagc tttaccatga 240
ctcactataa aaacgcctac gatcctgaag taatcagaaa aacgaatttc ctttttggga 300
aaa 303

<210> 33661
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E3

<400> 33661

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 tacatcatca taaactaatc gggcgagttc agctcccagt agaactaggg ctgaggatcc 180
 atgttcggtc ttgccggggg tgtcatcaaa aagatactcc gaatggcatc tgcattgattg 240
 ctactatttg agccgcctac tatatgcacc tatctgatca tgagtgtcga gtctgtcaaa 300
 atgtatgtcg cctgggggaa aagaaattta agttatatga aatgaatatg ctgttgatgt 360
 gtcaaaaaaa aatttacttt 380

<210> 33662

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E4

<400> 33662

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 cgtccgcctt cggcgaggcc cgcgtgacga tgcgcaagac ggccggcgaag gccaaagccgg 180
 cggcgggcgtc cgggagcccg tggtagcgcc ccgaccgcgt gctggacctt gggcccac 238

<210> 33663

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E7

<400> 33663

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 ggtggcggcc acggtgaact gcgcggacaa cacgggcgcc aagaacctct acatcatctc 120
 cgtcaagggc atcaagggcc gcctcaaccg cctcccgctc gcctgtgtcg gcgacatggt 180
 catggccacc gtaaagaagg gaaagcccga cctcaggaag aaagtgatgc ccgccgtcat 240
 cgtccgccag cgcaagccgt ggcgtcgcaa ggacggtgtc tacatgtact tcgaagataa 300
 tgctggagtg attgtgaatc ccaaggggtga gatgaaaggt tctgcaatca ctggacctat 360
 cggcaaggag tgtgctgacc ttgggcctag gatcgccagt gcagcaaatg ccac 415

<210> 33664
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E8

<400> 33664

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atggccaagg ccgagctgct cctcgccctc gtggcttcgc tcgtcgtgct gccattctcc 120
tccctcgccg tgtaccagga cttctgcacg gccgacctat ccgtcgccgc caccgccggc 180
ggctacccgt gcaaccccc gaaggacgtg accgccgacg acttccacta tggcggcctc 240
gccacccccg gcacggcgct gaaacccttc aagatctccc tgggctcggc cgtcgtcacc 300
acgttccccg gcctgaacgg gctgggcacg tctgccgcgc ggatggtgat ggtcccgggc 360
ggct 364
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<210> 33665
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-E9

<400> 33665

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ggcgcaatcg gatttgggga ggcaaaagga aaattccgga gagcagttcc tttccggctc 120
cccatttcct ccg gatagat ttgggtttgt cctgcgtcga ttagtccggc gccgaaccc 180
gcaccaatcc attcgccgag ggat 204
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<210> 33666
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-F10

<400> 33666

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gcaaggttcg tggtttcaca ttgacatca gctggggtgc gttggagtct ctggagcttg 120
actctgttgg gctttctatt gttccttcta gcttggtatg cacgtactgt ttatgtgtcg 180
aagacgtgct ggatatagtc ttctatacag tcgtgggtgca tgaagacgcc gtctcacggg 240
ttcaacg 247

<210> 33667
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-019-Q1-K1-F12
<400> 33667

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cgcgggtaga cgctttgggg gagccgatcc cgacgtcgtc ggtgctgatg gcagcgtcga 120
agcacatcgc agtccggtgc cgcccgagaga acgtctgctt cctcaactgc aagaagaagg 180
accctaattc tgagaagtgc ctcgagaagg gtcgccagga cacaagctgc gttcttagcc 240
tggttgaaga acttcatcaa aagtgtccca aggaaatgga tgaatatgct ggttgcattg 300
attactacac caacgatttc gacttctgcc gtaaggagca gcaagctatt gaggaatcct 360
ggcccatttt cgagtagatc ttgagagctt 390

<210> 33668
<211> 186
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-019-Q1-K1-F4
<400> 33668

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ggagggtgcc cataggctgt agcgcgcata cgaactacta caatcattct atatagtctc 120
ctaaataaac tacacagtgc catactttac aacaccctga ctgggaaaaa cctatacggg 180
cccaaa 186

<210> 33669
<211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-F6

 <400> 33669

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 ccacgcattc atgtcgagga ggaagaccag ggagcccaag gaggagaacg tcacccttgg 120
 acccactgtc cgtgaaggag agtatgtctt tgggtgtcact cacatctttg catccttcaa 180
 tgacaccttc attcatatca ctgatttgtc tgggagggaa actctggttc ggatcaccgg 240
 tggcatgaag gtgaaggctg accgtgatga gtcgtcacct tacgctgcta tgcttgetgc 300
 tcaagacgtc gcacagcgt gcaaggagct tggcattact gcactgcaca ttaaacttcg 360
 tgcccaccga tgcaacagga c 381

<210> 33670
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-F9

 <400> 33670

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 ttagattctc gttgggaagg ggacttgaac cgaacctgac catgtcgctg atccgccata 120
 gcaacgtgtt cgatcccttc tccttcgacc tctgggaccc ctttgagggc tttccctgcg 180
 gctccggcag cagcagcagt ctcttccctc cgttcccgcg gaccagct 228

<210> 33671
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-G10

 <400> 33671

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 gggtctctag aagggactgc aaaagcactg gatcctgagt ttaaagttat tgatagtgca 180

tatccttttg taattgggag actccttgca taccagcc ctgatatgag gaaaatattg 240
 cgggagcttc ttatatgtga cgatggatcc atcagatgga atcgactgga aaggc 295

<210> 33672
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G11

<400> 33672

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 agaaaaaagg ggaggggtgc aat 83

<210> 33673
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G12

<400> 33673

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<210> 33674
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G2

<400> 33674

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 tcgaggagat tgagcagagg gttgggggcc tcaggagct ggaggaagcg agcaaggagg 180
 agcaactcac aaagtgatca cgcgggcgaa tgggatggat acgggctact catcagctct 240
 ctatctgagc ttcgttagca aataagttca gacttcttaa tttactgccc tgctcaagtc 300
 tgtatatggc caaaacccaa aacgattgat caactgcgct actgcaatgc aataacatga 360

tacgtatagt tttttttttt aagggaaca

390

<210> 33675

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-019-Q1-K1-D9

<400> 33675

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agagcagcgg atgagtgaga gagcggagct gctcaaggcg caagtacgtc aggcgttcga 120

tgctgccagc atggatgttg caagtctgat cacgtacgtc gacaccctcg aacgcctcgg 180

cttagacaac cacttncgcg acctcatcgg agctgccttg gaacgaattg gaagctgagg 240

agc 243

<210> 33676

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G3

<400> 33676

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ggtaaatatt cattgagtag aaaggaccca tgcttaccta 100

<210> 33677

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G5

<400> 33677

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cttttatcat gggagagcag gatatagttg cataaaaaaa aaaattattt aaatttaaaa 120

tattacaata aataattata actattataa aatataa 157

<210> 33678
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-G8

 <400> 33678

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 aagcaccaag aaggttgtgt actgcactta aaggatctat tgatgggtact ctgtttatgg 180
 ttgttcaggg aatgtggact cgggactttt ggtttagctt ctgatacctt atgactgatt 240
 ggaaacaaag atgtatatcc tctgtccaaa a 271

<210> 33679
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-G9

 <400> 33679

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 aaaaaagaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataata t 111

<210> 33680
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-H10

 <400> 33680

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 tttttttctg aatattcagt taagaccatt caaaggctcc ttttcgccat gcataaacta 180
 aaccaacaac taggataagc acaaaaatga aagcttctat aaaaacggat acaccaata 240
 cgtcgaaact cattgcccaa gggtagagaa agactgtttt cacatcaaaa acaacttata 300

ctatctcata catgtaatag cgtattcaga attgtaacca atccctctct atgggttcta 360
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<210> 33681
<211> 328
<212> DNA
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<223> Clone ID: LIB3068-019-Q1-K1-H2

<400> 33681

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acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgcca 180
tcaacttcgc caccgccgag cacaagagcc ccgagcacct cgtccgcaac ccgtttggctc 240
aggttccagc tctgcatgat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
acgtgctcg caaaaacaag ccatagct 328

<210> 33682
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-H3

<400> 33682

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acgccttctc gtccccgtcg gcggttccgg gccctttctc ccgctgctcc agctccgctt 180
ccaccacggt cgcgacagat agcactggga ggagctcggt ctcccgtagc ccgactaaga 240
gccgaaagcc accgtttctg tccgccttgg acgacacaaa gtccgtactt cgcgatccga 300
tatcacgctt cgacct 316

<210> 33683
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A9

<400> 33683

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ccatcgtcac cgggaagggc ccgctcgaga acctcgctga ccacattgcc gaccccgta 180
acaacaacgc ttgggcctac gccaccaact tcgtccccgg caagtgatgg aggcgccgcc 240
ggtgaccttt aagtgtccgg atgcatgtga ggcacgctg gttttcggct tgtaccatga 300
tgtaaactat tgttcaatcg acaaggaata attgcgttca ttgtcat 347

<210> 33684

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B1

<400> 33684

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ggcctccttt ggctgccccg gcgggacgtg atgctcaacg gcctgtccag tgtcgccgcc 180
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aaggtgaacg agaagaccgt gcagtgcacg gacccggccg ggcagctttc gtgccctctg 300
gtgtcgtcga cggaccccggt ggactttaag ccggaagca aggtgacgcg cattcggcag 360
ccggtgcatc ttctgagccc ggag 384

<210> 33685

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B2

<400> 33685

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ttttgctgtt ttcgctatct gtattgtagt cactgtgcaa aaaaaatcgt tttgattgat 120

tggtgcaaa aagtgaagtg cgctattgcg ctgtgact

158

<210> 33686

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B5

<400> 33686

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cgggcgccgaa ggcaaagccg gcggcgagct ccggcagccc gtggtacggc cccgaccgcg 120
tgctctacct gggcccgtg tccggcgcg ccccgagcta cctgacgggc gagttcccgg 180
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gggagctgga ggtcatccac tcccgtctgg ccatgctggg cgcgttgggc tgcgtgttcc 300
cggagctgct cgcccgcaac ggcgtcaagt tcggcgaggc cgtgtgggtc aaggccgggt 360
cgcagatctt cagcgagggt gggctggact acctcggcaa cccgagcctg atccacgcgc 420
agagcatcct cggcac 437

<210> 33687

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-B6

<400> 33687

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aaaataaaat gatgagttac aaaatcaacg agcaatagag tggagggaaa gtataagtca 180
aaacatatag taattgttat taggtaggca attgatcact tgaggcttag ttggtagacc 240
ccatgtaccg attgttttga cctggcatag atatatatgt gttatctgta tatcggtttc 300
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aa 362

<210> 33688

<211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-B8

 <400> 33688

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 cttctatctg agcgccggcc catatctctt gtagatgacg caaaatcaat cttctgttac 120
 tcctactctt ctcttcttt ctatcgggga tactcatttc ctgctatgca tgcacttctc 180
 tatctctcac tataatatat accatatata actttatgac tcgcata 227

<210> 33689
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-B9

 <400> 33689

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 gtggattgga tctatccggc tgcactttag aatattttta gtattttttt tgataaataa 120
 gaaaagggtgc acgatctcga cgaattactt ctgaataact tcagaaatca tatggaagaa 180
 ccatagcatt tcgcgattca ttggtaaatt tactttgatt ctctatagac caataatgtg 240
 agaccattaa cactgttaaa gctaaactgc ttgaagtccg gtcaaaaagg ggtactcttt 300
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 tatctgatat 370

<210> 33690
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-C1

 <400> 33690

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ttgactcatg catgcataca aattgatcta tactttatcgt tatctgatgg aaggagtgcc 180
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<210> 33691
 <211> 113
 <212> DNA
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<223> Clone ID: LIB3068-019-Q1-K1-C10

<400> 33691

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<210> 33692
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C2

<400> 33692

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 ttggctgcaa aaagtgaagt gcgctattg 149

<210> 33693
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C5

<400> 33693

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 cgcacgcaga aggtcgccga caaggtcgcg ctgtgcctgc ccagcgacgg caggtccacg 180
 tcgggcgaca gcggtcggcg tggccatctt cggcgggcggc ccgctgttct tcgtcccgcc 240
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agccggtgcc cccgggtact acgtctctc caccggcatc gccgtggagc atgcccgct 360
 gggccgaccc gccggggcgc tcggcgtggc gctgagcttc acggtcccgt acaccgcgt 420
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<210> 33694

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C6

<400> 33694

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 aacacaacga ctgttctttt gacctctacc aacaactgca tgccatgcca cacggtctac 180
 acatcgaaca aaacccgttc ccctaacagc aaacactggt ctagtacact gtacacctct 240
 gctctacca cagcaaaggg caagggctga ttcaccacag aagcagcaca tcttccctta 300
 cccatatgga tgttaccact cacaagtttg taccttctct gccttttttg ttcagcctgc 360
 ttaggctcaa aaattggtga aattggcata tgcatttgaa aagtctcttt gaaccatttt 420
 cttttgaaa 429

<210> 33695

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C8

<400> 33695

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 acgacgaggt gtcacacga aactgacct cgttggcctc acctacctac caatggttat 180
 caaggaggtt cttcggctgc atctccaaa ccctatggtg gtcccacgtg agtcgagaga 240
 ggattgccaa gttatgggct accacattcc caaaggcacc aagtgctcg tgaacgcatt 300
 tgcgatctcc agggattcaa ggtactgtaa caaccctgaa gatttttagcc cacaaagggt 360

tcagaataac aatgtggact acaaaaggac cgattttg 398

<210> 33696
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-C9

<400> 33696

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ggagcttttc tagaacactt tcattctcct cttgtagcat atcaagctca tcgtgaagtg 120
tagatgcctc tcttttcagt cctgattctc ttgagctatg aagcgctgca tcaaactctt 180
tcggtcgagt gcgatccgct ggaggctcca cagccaccgg tggaataggg gacggtgttc 240
gcagcgactt gttggttttg attggcgtga ccactgttgt ggtgggtcgt gatgcaaca 299

<210> 33697
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D1

<400> 33697

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aaggaaactg acaaataaaa aagaacatat caaacaaccc tata 104

<210> 33698
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D10

<400> 33698

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gtggaagatc tcagaagtga agacgatttt ccgacaagag cgttggaaaa tattctcaag 120
acgaaaggga taattgatga gaagaagaaa gatgacgacg atgacgatga agaaagcgag 180
gctaagaata ggagggttag gtcttcaact gctcaagact ctgacttaga ctgaacctga 240

gatgaagatc gaggactcac cgtttttgca ctttggattt tgtttgtttg tttgttctgt 300
 agtgtgctga actgtactga aattgatttg tgtaaccatg ta 342

<210> 33699
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D11

<400> 33699

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 cggcggggtt tgacctgaag caaaatatgc gttgtctgta ggagagggca ttgccagata 180
 gcctctgtaa ccttgtactc tagttcctag actaaattaa tttgttatca tgtgtacatc 240
 agggtaagcg tgatgctgtc ttaagagatc caagtgatac caatttaaaa 290

<210> 33700
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A8

<400> 33700

cggacgcgtg ggcgcaaggt aaccgagacg atgaaaaaca gacttgtgta ataagtaa 60
 gaacctataa aataccagtt taactgttta aggagatttg cctcatt 107

<210> 33701
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D12

<400> 33701

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 ttcgaatgaa taaattgttg cttactagaa tgaatacggg cggaattggc cattattctg 120
 tagtatcact gtcaccaat gggatataaa aaattaagtc agagtgggtga tgaccacct 180

atcggcatta tatgaagaag agactgattc aatgggtctct gctgagaaaa ttcccgaacc 240
ccatcaata 249

<210> 33702
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D5

<400> 33702

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cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgttcgcg gacgcgtggg 120
cggacgcgtg ggcgcgctcg aaagcttgcg cgggtggcgtg ctcatggtcg cgcgcatagt 180
ggtatgccaa aagaggatgc tgggaaagtc tgcacagtgg agactgttat gtcattctgt 240
atacgtatca tttgggcgac ttgaaagaag aatactatct tagctactga attgggaagg 300
atagcttggg ggactatcaa gtgtcggcat cttaaatgac taatacaatg gggaattcat 360
tggaaggacg ggctgttggt ggctcg 385

<210> 33703
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-D6

<400> 33703

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gctggaaaca agcttgccat gcaggagtgc atgacacctc caactgggtgc ctccctcggtc 120
aaggaggcca tgaagatggg agttgaggtg taccacaacc tgaagagcat aatcaagaag 180
aagtacggtc aggatgcgac aaatgttggg gatgaaggtg gttttgcacc taacattcag 240
gaaaacatag aaggccttga actattgaag gcagccatag aaaaggctgg ctacactgga 300
aagggtgtca ttggaatgga tgttgctgct tctgagttct tcggtgagaa agacaagact 360
tatgatctta atttcaagga ggagaacaac gatgggtcaa acaa 404

<210> 33704

<211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-019-Q1-K1-D7

 <400> 33704

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 gcaacacggg gctgatgggtg atcgacttct cggcgtcctg gtgcggggccc tgcctcttca 120
 tcgagccggc cttcaaggag ctggcctgcc gcttcaccga tgccatgttc atcaaggtcg 180
 acgttcacta gctctcggag gtcgcatgga catggaaggt agaggcgatg ccaacgttcg 240
 tgctgggtcaa ggatgggaag gaggtaggcc gcgtgattgg ggctaagaag gacgagcttg 300
 agaggaagat caggatgttc ggcacgtcat ttttctcgtc ctaacttata agtgcataca 360
 c 361

<210> 33705
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-F9

 <400> 33705

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 aaaggaaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaattaaa aaaataaaaa aaaaaaaaaa atatataata aaaaaaaaca ataaaattag 180
 acaatttttt aataatatac aa 202

<210> 33706
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-G2

 <400> 33706

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 ggccggcccg ttcagacat aagaggggca gatccccgat cgcgaccac gcaataagca 120

acttcacctt taaaattctc ttattcgatt ttogtgcgca ggctcccact tatectactc 180
ctctgactta atttcacact cttgcactac agtcaacctc aacagcgtct tctttatcct 240
ctgattccgt caaatccatc tccttggtc tcgcctcgat ggattgtata catgcacact 300
gacaatcttc ttaatgcttt catacgcgta actcattaaa tca 343

<210> 33707

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G5

<400> 33707

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ataacacaga tggtgatgac aaggttgctt cctggtggga ctatggttac caaacaactg 120
caatggccaa cagaactgtg attgtagaca ataacacctg gaacaacact catatagcaa 180
cagttggtac agcaatgtcg tccccagaaa aagcagcttg ggaaatcttc aattcttttag 240
atgtcaaata tgtgcttggt gtctttggag gacttggttg ataccctagc gatgatata 300
ataagttcct ttggatggta cgaataggag gtggtgtggt ccctcacatt aaggagccag 360
attatcttag ggacgggtcaa tatcgcgctg atgctcaagc tactccaact atgctgaatt 420
gcctcatgta caaacctttg tac 443

<210> 33708

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G6

<400> 33708

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cacatttaac aactcatgca tggcaaagtc aaatctcaaa tatacatata cctaccaagc 120
aatctactgg ccgctccata ttcaactact ctactctgta acacccttgc ctttcottac 180
ttaatcccat ttcaacccat ccgcctttcg ccagccaaca gcaataacta aaatacccat 240
tcctttcccc atttcaaaca ttttcgcagc ctttatagca catgctactc accctatcgc 300

taatcttcat gcgcggctct cctttccact aacttcagct tctccattac actatgtaac 360
gccctctgac cctctccttt accttcatta ctccctttt tccccacct 409

<210> 33709
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-G8

<400> 33709

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aaaaagaaaa aaaaaaaaaa aaggaaaaaa tataaaaaat aaaaaataa aaaaaacata 120
catactaaaa aaataaaaaa taatttactt tcaacttaa ggaattaaat tgccgttctt 180
tttacatcca taattaatgg ttaaatacctg gagtttccaa acttaattgc cttgcaatac 240
atttcatttt t 251

<210> 33710
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H10

<400> 33710

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ggagagcaaa aatctccgcc gccgcgcacc tacgcccacg gaacacgccg tcatatgagt 120
ggagagagaa ccccgcgctt cctcctccgt gagctccgta caaggaggct agagcggcgg 180
cagcatcgga ggggtcgggtg aggagggcga tgggtgctccc gctggtgaag ctcggtctgc 240
tcggttccg gacgtgagc aagcccatcg cggctccgct caagtacaac gccggcatcc 300
acccaagtt ccgcggtctc atcatcgga tcgcgcaggc aaaccatcgt ttcacgacaa 360
atatgcagag gcgactttac ggacgtgcga ctgacattca cattcgcccc ctgaatgagg 420
agaaagctat tcaagct 437

<210> 33711
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H11

<400> 33711

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cgaggagagc aaaaatctgc gtcgccgcgc acctacgctc acggaacacg ccgtcatatg 120
agtggagaga gaaccccgcg cctgctcctt catgagctcc gtacatggag gctagagcgt 180
cggcagtatc ctaggggtca gtgaggatgg cgatggtgct acagatggtg aagctcggct 240
cgctcgcgtt cctgacgctg agcatgccc tcaccgcacg tctcaagtac aactccggca 300
tacaccccaa gttccgcagt ctcatcatcg acatctggca tgcaaaccat cgtattacga 360
caaatatgca gaggggactt tacggacgtg cgaatgacat tcacattcgg tcctgaatg 420
acgagaaagc tattcaagc 439

<210> 33712

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H2

<400> 33712

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gaacctacc cgagcatcag ccatggcgat cgcggcgcg gcctctgcgc gcctcccgt 120
ccacctctac cctcgcctcg ctgcgtcttt ctgcgcagtt tcccggccg ccgcctcggc 180
cgccccggcg tccgcctcgg ccgccccggc gtccgccaag gtcgccgac gcacgtgcg 240
cgtcctcgcc atcgatctcg agggggcgcg ccgcgaggtc gtcggcctct ccgggcagac 300
actcctcgc gcgtcgcga acgaggagct catcgagccg gcctnccacc gnetcgagga 360
tatcgacgcg tgctccgncg agtgcgaggt ccacatcgcg cangagtggc tcgacaagct 420

<210> 33713

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-018-Q1-K1-H3

<400> 33713

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ctgccggaga ctgtggaggt gacgctgcgc gccgtcggcc cgtcccgtcc aaccaccctc 120
cgctccctc cgcttctctc ggtcgccgag ctgcgcggct gcatcgcgcg cgaacgccgt 180
ctagcaggca cggaagaagt tcgactccgc ttgatcctgc gggggaagac gctccgcac 240
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aagcctcctg ttaatcatct tcttgatgat gacgttgagg acgaagaaga ggatgaactg 360
aagttcagaa taccacanac gacaaccttg tggaagagga aatntntat gtttcttcga 420
gacaaaatga gattgcctga tatccatttg atg 453

<210> 33714

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H5

<400> 33714

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ttggacgccc acgacaactt cggcatctag atagctatgc gggagttagc ggacttgctc 180
gaggggatcc agaccatgac ctactgctgc ggtaacttcg gtgatgacaa gggtgccagg 240
gccattgtca aagccttctc acacataaaa tgcaactgtc tggcccctcc caagatcatt 300
gccaccaaac cggtcgatgg agcgaagact aactatgtcg aaggtgacat gttcagtttc 360
attccacctg ctcaaactgt cgtgctaaag ctagtgtgc accacctgac ctatgaggag 420
tgcgtcaagc tcctggctta atgccggaag gcgat 455

<210> 33715

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H7

<400> 33715

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gtggttctag atcgga 77

<210> 33716

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H9

<400> 33716

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aaaggaaaag aaaaaataaa ataaaaaaaaa aaaaaaaaat aaataaaaaa ataataaaaa 120
tataaaaaaa actaaccttc tttacacatt ctttctacct tattacctct atatatcttc 180
acctttaatt taaaaaaatt gtccctattt ttacaatttt tttatctcat aaattccttt 240
tctttcaaaa attttttttt tttcttttta tctaattttt ttcctttttc tttacatctt 300
ttttgatcat aaattaatat tccttcctat cattttcttca acctcttttt ttaatttatt 360
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<210> 33717

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A10

<400> 33717

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ccagttcctg tttcagtcga tcgcagttag catggccgct acacagagct gtcaggctgc 120
tgcttgcttc cctgccgtcg tggctgtcga cgaggagcac ggccaccaca gccaccagct 180
gaagggagga gcgcatgatg aggctgagaa 210

<210> 33718

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F5

<400> 33718

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tgttccacca cctagctcgt gctcgtcttc aaggctatat ccagcgggtct tcgtattcta 120
cctccgactc tgtattttcaa ataccatttt ataaataatg cagtctacag tgtaaaacag 180
tgatttacac gacc 194

<210> 33719

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-019-Q1-K1-A12

<400> 33719

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ctgcctgaca tacaagaggc tggatgactt cgtcgcgcag agtgaangaa gccatggcac 120
gcgaccgcga gcccctgacc ccggagcagc ggtacatcct gtcgtgggat gcctgcaccc 180
agctgggtcat ggagcactcc gagctcgaca aggtcctgaa tggcgacagc 230

<210> 33720

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A2

<400> 33720

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taagggtcaac aagatcttgg tgggcaacaa ggtcgatatg gatgcgaagc ggggtggtctc 120
cacagctcaa ggtcagaagc tcgcagatga atacgggatc aagtttttcg agacgagtgc 180
gaaaacgaac cgaaatgtgg agcaggtatt cttcgccatg gcaagggacg tgaagcaaag 240
gctcaccgag accgttgccg ctgcggctga tccccgacc attcagatta gcaggccaga 300
ccccgaccag gctgacgcaa ctttctcgcg gc 332

<210> 33721
 <211> 129
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A3

<400> 33721

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 cacagctca 129

<210> 33722
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A6

<400> 33722

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 gcggacgtcg ccgtgtctc cttegccggc gccgtctctc gccgtcgagg ccccgcgcc 180
 gagccctgcc tccggcgccg cggccctccc ctgtogetc ttggccgccg acctctgccc 240
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 gttcctgacc tgtggtgcc ttgta 385

<210> 33723
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-A7

<400> 33723

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 aggggtagtc tcacggcctg aattcgcgga ggcgcccgtc acggcaaggc cgccacatct 180

agccccgatcg cctgcgcact actgctgccg tagacgttct tggccgctgc catctgtgcg 240
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 gacgagag 308

<210> 33724
 <211> 190
 <212> DNA
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<223> Clone ID: LIB3068-018-Q1-K1-D1

<400> 33724

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 ttcttcatct catatttcga taaatcaaac aatctcaatt ttgatctaata atatatacac 180
 acaacacatt 190

<210> 33725
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 <212> DNA
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<223> Clone ID: LIB3068-018-Q1-K1-D10

<400> 33725

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 tcacgtgga ggtcatgact gaccgggtca tcctcccctc cggccacacc ttcgagcgcc 180
 gcatcatcca gagctggctc gacggggggc acctcacctg ccccgtcacc aacctccgc 240
 tgccgccctc cccgcgcctc atcccccaacc acgcgtgcg ccgcctcata gccgtcgtct 300
 cgccttccgc ggcggcgtct ctcgtccctg ctgagggagg ggctcacgcg aggcaagaag 360
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<210> 33726
 <211> 215
 <212> DNA
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<223> Clone ID: LIB3068-018-Q1-K1-D11

<400> 33726

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gcctatcagc atctctgggt ttaatcaatc attcggtcac cctgttctct atcgactaa 120
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tgatcaacat catacatctc taaaaactcc ttttg 215

<210> 33727

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D12

<400> 33727

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<210> 33728

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D2

<400> 33728

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cggaggggat gaacgtgaag gaggagtgc agcgctgggt catggagatg aagtggaaga 180
aggtgcaccg ctctgtggtg tacaagatcg acgagcggtc gcgcgccgtg ctggtggaca 240
aggtgggcgg ccccggggaa ggggtacaac agctcgtggc gcgcgtgcc ggcgacgact 300
gccgtacgc cgtcttcgac ttcgacttcg tcaactgttg caactgccag aagagcaaga 360
tctttctcat cgcttggtca cggcgggcgt cgaggatcag ggccaagatc ctgtacgcga 420
catcg 425

<210> 33729
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D3

<400> 33729

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caggcatgat taccgtaaag gat 143

<210> 33730
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D4

<400> 33730

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gggcctgacc atttctcacg tccatcccat cttccatcta cacttcatgc aacattatta 120
cacttgcgat caacgtctac cacttatacc acacctcttt catc 164

<210> 33731
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-D6

<400> 33731

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ttttttttta tttttttttt ttttttttat ttttttttta tttatatatt tttttttatt 180
ttataaaaaa tgttgatgta cattaaataa taaaaattta acaccactct atttaaaaaa 240
taatataattt tttataaaga tacaaaaaaa taatttactt gctattttat aaaaattgtt 300
aataataaaa a 311

<210> 33732
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-E1

 <400> 33732

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cgcggcggtg gagaggatgg agctggccaa gtcgggtggtg tgggagtcgc tgcgcctgga 180
cccgcccgtc aagttccagt acgggcacgc caagaaggac ctgctggtgg agagccacga 240
cgcggtgttc cacgtgagga agggcgagat gctgatcggc taccatccgt gcgccaccaa 300
ggacccacgc gtgttcggcg acaccgtcgg tgacttcgag cccgaccgct ttctcggcag 360
gagggcacca agctgctgca gtacgtgtac tgggtccaacg gccgtgagac cgagaacccc 420
  
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<210> 33733
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-E10

 <400> 33733

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acgcagcgcg tgggccaacc aaagcctcag aggtgcactc aaactcatct gcaagcccgg 180
ggggagaagc aaaatgggac ctgcggaacc tgaaaagatc ctgaagacac cgggcatcaa 240
ctgatcatct tgttttaga tcgtagtaat gtgccttgct actgcacctc aacaaaaatt 300
ttaagagctc aattgctagt tacagtg 327
  
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<210> 33734
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-E12

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agaaccatta gcaagcaagc attatgactt aaatggacta acacataacc aagtcacaca 180
tcatgctcac atcctcttta ctgataacaa atcaccacta ccaatcgggt gcataacta 240
caaccttcca cgcacgtaca atcactatcg cgttacaaac aatcagtatc ctaaacctaa 300
cctttcgaac cactttctaa acccaattca cacagcttat cgacgcttaa acaatcaaac 360
acttcgacaa 370

<210> 33735

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E2

<400> 33735

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gggccttata aatctaaagg tagatccatt atatgatcta aactgattat ctgataattt 120
tagttgagat gatagtatag taaatgtacc atactctggt ttactataa atatacttca 180
atacttacat acattttaa tttcaaaacg actataacga actacaccat ccatagtgac 240
aactcactact actac 255

<210> 33736

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-E6

<400> 33736

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gatcgcaaag tggagaaagc caggatacga gcgcctttgc tgccctccgt gcatacagac 120
acgtgaccac aactttgcaa cgacttgtgt ctgccgagtc cccaagcatc tgagggagga 180
gcaagtgata gaatgtgtcc attgcggtcg caggggttgt gccagcgggtg actaatcttg 240

tcagttgtca tcatgttggt gggctcacga ctcatcatca ccatacctaac cacattaagg 300
cttttcggtt agctctcaat ccatgtggat tgagtaggat tggatgagtt tgaatcccaa 360
acaagtcaaa ctttttaaga atttttttca atctcatcca atccatgtgt attgggaata 420
accgaacaag gccttagatg tctcgtgagc atg 453

<210> 33737
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-F1
<400> 33737

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tcgccatcgt cggtcacgac ggcagcgttt gggcgcagtc cgagagcttc cccgagttaa 180
agcctgacga ggttgctggt atcataaagg actttgatga acctggtact cttgcaccaa 240
ctggtctttt cgttggaggt acaaagtaca tggatgatcca aggtgaacct ggagttgtca 300
tccgaggaaa gaagggcact gcgggcatta ctatcaagaa aaccggcatg tccttgatta 360
ttggtgtcta cgacgagcca atgacttcaa ggcaatgcaa cgatgtggtg gagaggctcg 420
gcgattacct gatcg 435

<210> 33738
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-F10
<400> 33738

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accgagaagg gcagggtcgg catcgactgg tccgacgcgc ccttcgtcgt ctctaccgc 180
agctactacg ccagcgctg cgtcagcggc ggcgcgtccc gggcagccgg cagcggcggg 240
tggatgaaca ggcagcttga cagcggcag tggggcaccg tcaggtgggc ggagcgcaac 300

ttcatgcgct acaactactg ccaggatggg tggaggttcc cgcaaggcct ccccgccgag 360
 tgcgccccgcc actgatatgc gtccgcccgt taattcttcg tcgatccagc ttggcgctcgt 420
 ttgttctttg ttttgttggg tat 443

<210> 33739
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-F11
 <400> 33739

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 caccgagaag ggcatggtag gcatcatact ggtccgacgc gcccttcgtc gtctcctacc 180
 gcagctacta cgccagcgcc tgcgttagcg gcggagcggt ccgtagcagcc ggcagcgggc 240
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 acttcatgcg ctacaactac tgccaggatg ggtggagggt accgcaaggc ctgccccccc 360
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<210> 33740
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-C8
 <400> 33740

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 gccccgcggt gtgcgtccgc cgggccccgt gagccaatgg cacgggccct tggggcgcca 180
 acgccctaac tctagatcgc ga 202

<210> 33741
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F12

<400> 33741

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actagatcca ccatacaagt gaatcgctct gcatcatact ggtccgaccc gctctattct 180
cgtctactac cgcatatact acgccagcgc ctgcattatc cgcggcgctt tccaagcagt 240
cggcatctgc ccgcggatga acaagcaact tgacagttcc aagtgtggca ccgtccgatg 300
gaactgttct caacttta 318

<210> 33742

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F2

<400> 33742

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tggagaggcc aaacgtgtgc gatgggtaat tatataagac gtgctcttct tcagatcatg 120
gtgaattgaa agactgccaa attaaggcca cttgtgttgc tttgattgta cggagagatc 180
atgctgacgt gtacgtacgt gtaccgagat ccgtttcaaa tgcattgctt gattgtacag 240
agagtggctc gtttggcata tagctccgct acatgattct ctaatagggt aattccgtgt 300
gattctctaa caaaagtga tctgctatct gatg 334

<210> 33743

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-F4

<400> 33743

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gectgcgaga tcgcgcgcct gccggatgac ctctgtcgg cggcgctcgg ccggacgggg 180

ccgctggacg cctgccgcgc cgcgcgggtc tcgccggcct ttcgcgccgc ggccgacgcc 240
gacgccgtct ggtccagctt cctgccgccc gacctgcccc cgctcgccga tggggagctc 300
cccgccgacg cgacggccac caagaagcag ctcttcatgc gcctctccga ccccgccaga 360
cccgctctcc tcgccgacgg cctcacgagc atgtggctgg acagggtcac cgctcgccaag 420
tgctacatgc tgtccgccag gaagctgacc atcatatg 458

<210> 33744
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A1

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gaaagtggca tcattgtcag ccgtttctctt cgtgctagcc ctgacgctag tttgtgcccc 120
gctgatagca gaggcaaaga agaagagagt cgcgcgccgc gccgccgagg agaagaaggt 180
gcaggacaac ttctgctcga cgctgtgcga aggcaggaag gggatggacc tgggtggtgtg 240
caaggagtcc tgcgacctct cacagcgctc caacctggtg ctgtacggcc ggatccagtg 300
caagggcaag tgcaccgagc agaagggca 329

<210> 33745
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A11

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aaacttctat atcatccaaa gtcactttct cataactaac tcctcataaa tcttctatat 120
tattacctaa atccaactca ctctacctca actttcacc ctaaccttc aaaatccaca 180
actcttcta actaatcgc ccaataccat atactctctt ctaccgctat ccttataaat 240
cattactcct aacctatccc cctttcaaac aaccatacac cc 282

<210> 33746
 <211> 193
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-A12

 <400> 33746

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 taaattccta caacagcccc gtctctcgac actaccatac tgatcaccaa ctatctagca 180
 cttatgaccc ata 193

<210> 33747
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A2

 <400> 33747

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 aaaaaatgat gttggtgctg ctgctgctat gtcaggtaac cgtaacttct agggctcgtgt 240
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 tgctggaact gctgatattg attgtgagaa agagccatt ggatttggaa aggatggcaa 360
 tgaactctac ttcattggata tatggccctc gacagatgac attgcgcaag ttgaccaatc 420
 cagtgtgctg nctgacatgt tcaatggcac cta 453

<210> 33748
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A3

 <400> 33748

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 cgggtactgg ggcggcgtga cgtcgacngc cgggacggcc attgaacgct acgagccggc 180
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 ctgctgtcc gt 252

<210> 33749
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-A5

<400> 33749

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 cccgctcgac ctgcgtccca agaagaccgg cgccatccgc acgcgcctca ccaagcacca 240
 gctctccttg aagaccgata gggaaaagaa gcgtgagaag tatttcccca tgatgaagta 300
 cgttatcaag gcctatatca gtgaaagaac atttatcctg tcaagttttg ctcaaaagct 360
 attgaattt gatacaaacc tatctccatc caagtactat gtagatgatc aactgcatga 420
 ttaacaacga gtacttttgg ctaaaaaata aaaa 454

<210> 33750
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-A8

<400> 33750

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tggctcccat cgtgcggtt gaggaggtag ccgtcaccac cggcgaggag gacgaggacg 240
 tcctgctcga catgaaggcg aagctgtacc gattcgacaa agacggtaac caatggaagg 300
 aacggggcac gggcgctgtc aagctttctca agcacaagca gaccggcaag gtccgcctag 360
 tcatgcgcca ggctaaaacg cttaagatct gcgcgaacca cctcgtggcc ttcaccacga 420
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<210> 33751
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-B12
 <400> 33751

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 tatcaacacg aggaccgcct gactagctaa caaactgatg attaacgagc aagcttgaag 180
 agccagaatc agcgaggagg cgcggtacgt gccggtgctc aagttgctgt accagtccat 240
 gactcctgct acagctatga gctctacgac agcagaggca ctgactgaag ctgcacogta 300
 cgagccgtac gaggtgagcc acgcgtgcct gtgctgctcg ccgtcgtcgt cgtcgatcaa 360
 cggcagcagc agctgcgtat acac 384

<210> 33752
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-018-Q1-K1-B3
 <400> 33752

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 tctggaaacg actgcatcac attccaacgg aacatcctat agttatccat tgcagtgcag 180
 gaatcggaag gactggtact tacatcaciaa tccatactac aattgagcga attcttcttg 240
 gagataaaag ctcttacgat cttgcaaaaa ctgtaaagaa ttttagatcc caacgacctg 300

ngatgggtcca aacagaggaa caatacaagt tctgctacag ggcaattgct gacgagctga 360
aagacctgct aaattcagat cattgaggtg ggtcacatga gacggacagc aacgctgnta 420
gcattttatta cgttntttta gacattttcta tgt 453

<210> 33753

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B4

<400> 33753

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actcacaact acagcttcac attacaacca aacatactat agtcatccat tatacttcac 180
gaattgtaaa cactcaaact tacatcacia tcaatactaa aatcaaccca attattaaag 240
ataatacaag ctctgactat ctctccaaaa ctgtacagaa ttttcaactc caactaccta 300
acatagaaca aac 313

<210> 33754

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B5

<400> 33754

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tggtgtgtct cgtactctcg gtgtgaagaa aagacgcgtg ccttttcttc tcgctgcaag 120
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<210> 33755

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-B6

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cacctgcaag acattgagaa ccagccagcc aaccaaccaa ccggcggagc caaagccaag 120
aaggaaggca acttgtccgt ccagtcagga tgtgcaactg caacgtcaag tccgcgggag 180
tggcccagat cgacggccgt ccggtgctgc agccggcgga caacgcgctg gcggcatcag 240
agcctgacgc ctaccaaccg ctgaataagt cccttcagaa gtcactctcc atgccggcct 300
actacgacag caatgcctcc gcaggcgctc gacctgcgcc agacgagaac actaccgta 360
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<210> 33756
<211> 313
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<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-B8
<400> 33756

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accttttttt ttattttcct tctcttttaa ttctctttct tttttcttct tccatctctt 240
tctccttcta atcctttctc tttcaaatta tttttctttt tcttttttgt attttctctc 300
atcttttctt ttt 313

<210> 33757
<211> 101
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-C12
<400> 33757

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tctactcaa tcatcccaac tctacttata aattacaaca c 101

<210> 33758
<211> 458

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-C3

 <400> 33758

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 ccctcagatg acgctgacaa agcagctaag aagcatattc ctactgtaaa gagaacatct 180
 ggggtcttag gaaactcgaa tggtataaat ctagtgaaga ttctctccaa ccgcaaaaaa 240
 ctaacagata ttagcacttc atggacatca ctccctccat cacttgccaa actaggaaag 300
 gagcttctta agtacaggga atcggcacia atagctgtgt ctgaagccat gcaagaagct 360
 tccgctgcag agagcttgct cagatgtttg agctcgtacg cggagggtgag ctccacggcg 420
 gatgagcaca acccgagcc agccgtagag aagttctt 458

<210> 33759
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H9

 <400> 33759

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 tatgatgtgt tcgttgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ataaaataaa caaacaaact aaaaaagggc tgctggtttta 240
 aagcttctta gtttaattca ctgtcattcg atatacaact tcttgaatgg gtaaacctat 300
 gtcaaaccg catgtcaa 318

<210> 33760
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-C4

 <400> 33760

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gagctggaaa acttgaagtg tatgaccatg atatgttctc agccgatgat atcatgggtg 120
aagcagagat agatctccag ccaatgatca cagccgccat ggcctttgga gatacttcac 180
gtcttggtga catgcaaatt gggaggtggt tcatgaccaa agacaacgcc ctgatgaaag 240
atagcacggt gaatgttgtg gcaggtaagg taaaacagga ggtgcactta aagctacaga 300
acgtagaatc aggtgagttg gagttggagc tagaatgggt tccgatcctc tagactaatg 360
ataactcccc tgatctttgt ctaaaaatct atactcaaga tgcacgatg tttccaagct 420
gtccacttga tggctcttga catttttgct ggatggtttg a 461

<210> 33761
<211> 99
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-C5
<400> 33761

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gggtgtggca attatatggg agtgggccaa aattttatc 99

<210> 33762
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-018-Q1-K1-C6
<400> 33762

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tgcagtcggt ctaccacctg cggatcgggt tcgcctccgt ggcgtccaga ccgtctgcca 120
ccagcgccat gtggtggtac atgtgggtgc tgtggcccgt ggcgtggctg tccatggcgc 180
tcgctgtggc ctacgggtcc tccgcgttcg tcgtcgagag gatcaaactc gggaagctga 240
ggatgcaaac gtgggcagtg ccaagatata acttccagta cggcctgagc tgggagagag 300
aatcgatcaa cggcctcatc gaaagggcga tactagatgc tgatgcgaga ggtgtcaagg 360
tgctcagcct aggactgcta aaccaggcga aacagctg 398

<210> 33763
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-018-Q1-K1-C7

 <400> 33763

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 gcccttctcc aagccgggag tcaccgggag gggcatcccc aacagcatct ccatttgacc 120
 cgtccgtcct ctccatccaa tggggggttg ccttattgcg tgcacgctag ctagctgctt 180
 ggaaataaaa ataattaaaa taaaagggtct cgtctgtact attgtattgt accatggatc 240
 atatcgtaca tgttgtgtca atgcaaagag gcacgtttga gttaccatt 289

<210> 33764
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-F5

 <400> 33764

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 ccctgccctg gcacctgcga gaaggaggag actacatgtg gagttttttt tttttgcttc 180
 tttagtcgtc gtgttaagtc gtcctgcgcc gataattctt ggtggtcacc agataagagt 240
 cattcctgat gtcggtgttg attgctgttg ggttggtcgg gaaatgactg ggtgaaccgg 300
 ggggcgaagt gggagggggg ttgtgtcgtg taattttgga tgccactatt gtgcatgtat 360
 agccccgtgt gctgtgtctac cctgatccgt gttgtctact ctatgtcagt agatgttacg 420
 tactac 426

<210> 33765
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-F6

<400> 33765

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gcttaagaag gaatgtgttg aggcaatgga gactcaactc aagagggagg agttccaaga 120

tgaggagatg cctgatgtca ggaaactgga catccgaaac ttctgtagg cctgatcgac 180

gataaccttt gaggcattgc aaatcaccca gccacactgt gattgttttt cttttggttt 240

tggtttcaag ttgatcggtg ctgtaagcta cacctatgaa tgctgctcct tcctttcttt 300

gtaataaaaa aaactgcacc gaggtacaca aacacagtca accgttgagt tgagttgaat 360

ttctct 366

<210> 33766

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F7

<400> 33766

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cgaggctatc attctcgtcc tcagactgga cattgctggc tagaccacca tactatatac 180

actgcacatg ggagaagtcc tcttcacgat cccgacaatt ggattcaacg attatactgt 240

gcagtacaac aacatcaagg ctcaagtatg ggatcttgaa ggccaaacat gcattaagcc 300

atactggcag tgctactttc caaacactca ggctatcata tatcgttgat gatgcaagcg 360

atacatatag gcttgtaac 379

<210> 33767

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F9

<400> 33767

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aaagaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaagg gcaacctttt taaagaatca aagtttactt actcagacat ccaacttaaa 180
 agcttttata taggataact aaattttaaat tcaactggcac gatttttaaaa acttcggaat 240
 tgaaaaaacc ttggctttta caaacttaat ggccttgaaa aaaatccctt ttttgcaaat 300
 tggctttttt tccaaaaagc ccaatacgaa tggcctttcc aaattttgcc aaacccaaat 360
 tggaaaagga aacccccctt ttagggccca ttaaattccg gggtttttgg ggttaccccc 420

<210> 33768

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G1

<400> 33768

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gaggtc 66

<210> 33769

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G10

<400> 33769

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gacgagaggg cggagcacgc ggggccggct ctgtctcagg acgacctcga cttcgacttc 120

aaccacgcca ggtccagggc ggcgctggcc aagggcgacg agatgttcgt cgcgatgccg 180

gacgggaagt ggaagctcca cacggtgtcg gcggcgtcga acaagcgcgg cgagatcgtg 240

ctgcgatca agaagacgaa cctcgtcatg gccttctccc acgcaaaaga aagcgtgac 300

cacgacgtgc agccgtgctc cccggagaag ccgagccccc acgagggcgc gacataccca 360

gtggaggtct ccacgaacaa gggcaagggtg gagctccgca cggacgacta cggcgtctac 420

aagcgggtggg ttgcgacgct ga 442

<210> 33770

<211> 441

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G11

 <400> 33770

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 ggagtaacac aaatgctaag gaaacatggg gttggttgga aatttggtga attctatggg 120
 gaaggatatgg gtaagctgtc tttagctgac agggccacaa ttgcgaacat gtcaccagaa 180
 tatggagcta ccatgggctt ctttcctgtg gaccatgtga cattggatta ccttaaactg 240
 acagggcgcga gtgatgaaac tgtgtcaatg attgaagcat acctgcgagc caataaaatg 300
 tttgtggact acaatgagcc ttcaacagag agaataact catcttgagc tgaaccttga 360
 tgagggtggag cctagcatgt ctggcccana gaggcctcat gatcgtgtcc ctttgaagga 420
 aatgaaatca gattggcatg c 441

<210> 33771
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-G2

 <400> 33771

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 agaaaaaaca aaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaccta taacaaa 117

<210> 33772
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G3

 <400> 33772

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 aagcccactg agcacatgga atgaggatgc gtgccgcggg ccggcatcgg gcgatctgcg 120
 cccgagcgtg ctgtgagtgg tgctgcac cgtgtcactg ctaactggtn ngggcgtctg 180

cgccggggcgc ccgtgtacca taggtaggcg aacctggaac gcctggggcc gtgccgtcgc 240
 cgtccaaagc ccgacgtcta cnaagcgctg ggccaaatcc atccacttcg cgctcggcga 300
 ctccatctgg ttcctgtacc cgccgagcca ggactcgggtg ctgcagctag cgccggcggc 360
 cttcgcgtcc tgcgacctgt cgcgccccgt ggccaggctc gccgacggca actccttatt 420
 caacctcacc gcgcccggcc gcgcctacta cgccagcggc 460

<210> 33773
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-G4

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 caaggggtcat gtcgtcacca agcgcgagct gcctccccgc ccgtgccacc gcaaggggaa 180
 atcaacgaag aggggtgtcta tggtcagggg cctgatcaga gaggttgctg ggtttgctcc 240
 ttatgagaag cgtatcactg agcttctgaa ggttggcaag gacaagcgtg ccctgaagct 300
 tgctaagaga aagcttggaa ctcaacaagag ggcaaagaag aagagagagg agatggccgg 360
 cgttctcagg aagataaggt cggctggtac gcacacttga cagaagaaat agagagcctt 420
 tcaagttcat gg 432

<210> 33774
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-G5

<400> 33774
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 gtctctgcag caagtgatgt gaaggctggg gctggggccaa cgagatcagc gtctgcaaac 180

gtgtcaaccg acaagaacag gaactacgct gtcctggcag gcacaattgc tgctctgagt 240
ggcctgggtt ggtatctatt gtcaaagcct aagaagtcgg aggaggttgt ggactgaaga 300
gggggttacg aatgcgagct gtggatgggt ggccttatat ttcaccatgg tttactttct 360
gcgcacgcct tctggaaata aattgtgaaa catacg 396

<210> 33775

<211> 433

<212> DNA

<213> Zea mays

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<400> 33775

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atggatgtaa atgttgggtt tgggtgccgta tgttgggtgt ggagtatatt tcttcgccag 180
gtatttgctg taatcctgtc cctttactgt tctgtcactg caatgagaat aacataaaaa 240
tgagtgtcgt tcaaaaaaaaa actgagtcaa tgattgaaac atacctgcga accaataaaa 300
atgtttgtgg actacaatga gcactacatc agagagaata tactcatatt gagctgaacc 360
ttgatgaagt ggagcctatc atgtctggcc caaagaggcc tcatgatcgt gtccctttta 420
atgaaatgaa atc 433

<210> 33776

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H10

<400> 33776

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tctttataag aatattgtcc tgtctggagg ctgcactatg ttcaaagatt tccacaggag 180
gttacagcgg gacctaaaga agatagtgga tgcacgggtc cgtgcatcta atagccggct 240
tattagtggg gatgctaagg cccagcctat agaagtgaac gtggtcagtc atccaatcca 300

gagatatgcg gtatggtttg gtggctctgt gcttgcttca actgccgaat tctacgaggc 360
 ttgccacaca aaggcagagt acgaggagta cgggtgccagc atctgccgaa cgaatcctgt 420
 cttcaaaggg atgtactgac t 441

<210> 33777

<211> 436

<212> DNA

<213> Zea mays

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<400> 33777

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 tccgtcaaat ccatggagtt tttcttagta agaccatatt aaccttgtct atctatatcc 180
 tctaagatca acgggtgtttt catacaagat ttaccgatgt actgctaattg tcctatgcca 240
 atgaaatatg ggaagcctgt agatatatgg attttcattg ctttgcagtc ttttttgtgt 300
 tttgtttcta atttttaaat aggtcttgac ctgccacctc caccttctaa tattttaaata 360
 ggtcatgaca atacacatga gtaagactat aggatgatga cttggactac taatatttct 420
 gagattttatg tgagaa 436

<210> 33778

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F4

<400> 33778

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 ggtggggttag ctacgcggcc tggttgatct tgagcagtta agcgtgtacg aaacgacagc 120
 tgtgtacgtg tgtactgtct gatggagtggt gagaagtact gtgtgtatstt ggtatggatc 180
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 tgcctcc 247

<210> 33779

<211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H2

 <400> 33779

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 caccatctc caactacctt caccoccttg ccacctctaa tgccaaattt accaacaag 180
 tatctattaa catagccc 198

<210> 33780
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H4

 <400> 33780

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 cttgcaacac tgctcgctt tgttccagt tttacttcag catcaggtga aactctactt 240
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 catattcttc caatgctggt tcgggcttat gatgacaatg atccccggt 349

<210> 33781
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-H6

 <400> 33781

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 actcttcctt gcaacatctt acctttttt tttgtcccc taatttcaat tcaactgacct 180

tattttcaca ccgtcttctc tcttaaacc cttccgttac ccattctact ccccttccaa 240
cacttcccct tt 252

<210> 33782
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C4

<400> 33782

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ctcctaattt ctaaaagatc cataagacag actttcactg cttctattcc cacttcaa at 180
caaaatcaaa cgaactttta cctcaagtt ccacactata tttctcttcc tcttgatctc 240
atattaccac accttcttta tcttttaac 269

<210> 33783
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-017-Q1-K1-C6

<400> 33783

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cggtctgtgc tctgcgcgtc agggcgccat gcgctcgcgc ttgcgcttgg gccccctcgc 180
agcgaccgca gcaaggggca ctgcgcagcc tcaagccttg cgcctcactg gcaccacaag 240
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cggacgcgtc cgtcagccag cttctnctnc ttgacgccat cgaccgggac tctgacatac 420
gnctcttctg caactcacca gggggatccc 450

<210> 33784
<211> 153

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C8

<400> 33784

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 atagaaaaaa tataaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa acaaacaaat 120
 aaaaacaatt atacaaaaat tcaaaaaatt caa 153

<210> 33785
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D10

<400> 33785

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 ataaaaagga gaacaaatgc cgttgataaa aaggagaaca aactgttcct ccaggttctg 180
 cttgcatttt ctccatcaaa gaatatcaaa acatttgctg ttgtattccc aggtattggg 240
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 caaaacgaca tgcttctctc gaccaaagcg gccgagaagc cactaaacgg tactgcgaca 360
 gagcagcagc ctgcctacg gacgcttggg tccctcacga cacggacggg cagcaccagt 420
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<210> 33786
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D11

<400> 33786

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 ctctacctc acgcccctgt cactgaggtg cgccgtggag cttggcatcc ccacggcgat 180

ctaccgccat ggcggggctg cctcagccgc tgagctggtc acggcgctgt ctctccccta 240
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 cgtcgacaag cagagcacgg acgaggagcg gtaccgcata agccacgtgt cctacctact 360
 ggtggacggc atccctcacg aggaccacat gaaccacacc gatctgggtgc tcacctgcac 420
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<210> 33787

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D12

<400> 33787

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 gccccctgtt ccatctcctc tgtgtgcgac ttttgtttgt gctgtgtcat ctatctatct 120
 aatccatcta tgctatcctc tat 143

<210> 33788

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-D2

<400> 33788

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 ggggtccggcg actccggctg cggcgcgggcg tgctagatcg ctaccgacca tgggtgggtga 120
 ggagatcgcc gaggggggtga aaaacctcac cgttaccgga gatgcggcgg cttcaggcgg 180
 agagggggcag aggaggggag gcggcgggcag cagcaaccgc atccaggtgt ccaacaccaa 240
 gaagcccctc ttcttctacg tcaacctcgc caagaagtat atgcaacagc acgacgatgt 300
 agagctatcc gctcttgga tggccatagc aacagttgtg accgtggcag aaattctgaa 360
 gaacaatgga ttgcccgtg aaaagaaaat taagacctct actggtgaaa taaacgcag 419

<210> 33789

<211> 223

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-D3

 <400> 33789

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 ctacactcaa tcatcactat cctacaacta acctttctca caactctcta atcccatatc 180
 acattcccta tattttaacg aacaatccaa cacttcctta att 223

<210> 33790
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-E10

 <400> 33790

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 gacggggtag cagctgatgt ccgctgtccc tcacctcgct cccaacgga cggatgacgg 120
 attggtgaca ttcttctttt cctcccagc caacggggag gctgtacatt gtgtgctgtg 180
 cttggtgaca agctgagacc tccggcgat tctttgatc gatcaccccc ctgctcgcc 240
 atcccattgt ttacgtagag aagaggaacc gtggagcttt ccacgcgga ttgtgaagcc 300
 gctcttgtag acaggcttcc attcaatgtg agaagcttcc cccctccttg acagatctcc 360
 gtgtttaga cctgtagcca cctgtaagat atgtgatgat gtccaacaaa caactctgcc 420
 agaccactgg ctagtcga 438

<210> 33791
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-E11

 <400> 33791

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 gctcaatgtg gatgtgaacg agttccagac caacctggtt ccttaccga ggatccactt 120

catgctctcc tcctacgcac cggatgatctc ttctgcgaag gccttccacg agcagctgtc 180
 tgtggcggag atcaccagca gcgcgttcga gccggcttcc atgatggta agtgcgaccc 240
 acggcacggc aagtacatgg cttgctgcct gatgtaccgc ggcgacgtgg tgcccaagga 300
 cgtgaacgcc gcggtggcca ccatcaagac gaagcgcacc atccagttcg tggactggtg 360
 cccgacgggg ttcaagtgcg gcatcaacta ccatgcgcca acagtgggtc cgggtgccga 420
 cctcgccaag gtgcatcgtg cc 442

<210> 33792
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-E3
 <400> 33792

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 ttctgcagct gctgggtgtc agatgggtggc tgcacgccct tgcatttcgg cctcgccagg 180
 aattcttacc gcacgggtag cagtttctag gactgattgc atgctcagta ccactgctac 240
 attccccaaa atcagctgct cctggcctct aaggtttaag cgcaatgatg ttgttgtaag 300
 agcaatatcg gaagagtgtg gcccgcaagg gcttcccatc gatctcagag gtaaaagggc 360
 attcattgct ggagttgctg atgataatgg ctatggatg 399

<210> 33793
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-E4
 <400> 33793

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 gcgcggggct gctcggcggg gcttgccggg cccggcgcgc agcaaggcgt gtggagcatc 120
 atcaccggg ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180

gcctttctaca cctacgacgc cttcatcgag gccgncagca agttccccgg cttcggcacc 240
accggcgacg agcagacgcg cangcgggag ctgccgnct tcttcggcca gacgtcccac 300
gaaaccaccg gtggatggg 319

<210> 33794

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-E5

<400> 33794

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cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180
ccgtgggtgga gaccccgccg ccggccgtcg tgcccgagga gtctgcccc gccgaggccg 240
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aggcagccgc cgaggcggag gccgcggctc ctgctgggtgc cgaggagccc gtcgcggccg 360
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<210> 33795

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-E7

<400> 33795

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gatcaaggca ccgtcgggtg tcagtgtgcg caacatcggg aagactctcg tatccaggac 120
acagggtacc aggattgctt ctgagggtct gaagcacaga gtctttgagg tttgcctagc 180
tgatcttcag ggtgacgagg atcaagctta caggaaaatc aggtccgtg ctgaagatgt 240
gcagggcagg aatgtgctca caaacttttg gggtatgaat tttaccactg ataaattgag 300
atccctagtg aagaagtggc agacattaat cgaagcccat gttgatgtca agacaaccga 360

caactacatg ttgcgtttgt tctgcatcgg cttcaccaag aggcgccccaa acc 413

<210> 33796

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F10

<400> 33796

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gcgccatcgg cttcatcgtc ggcgccaaca tcctcgcgcg ggggcccttc agcggcgggct 120

ccatgaaccc cgcccgtccc ttccggccccg ccgtcgcgcg gggcaacttc gccggaaact 180

gggtctactg ggtcggccccg ctgcgcggcg ggggcctcgc tggcctcgtc tacggcgacg 240

tcttcacatg cggtccttac cagcaggctc cggaccagga ctacgcctaa tttattcacc 300

acaccatcgt ctccgctttg gatgaatgga ttcaaaccga tcgtcgtttg cttttgctcc 360

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ctggtccatt catttccctt t 441

<210> 33797

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C2

<400> 33797

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acctacatta gctcttgcac atattccggc cgagccaggc tccccacctg acaatgtctt 120

ccgtccggat cgccccggct agtcctttcc ttgtaaccaa aacgacgctc ggtgccccgc 180

ttgcgaccca ctgaataagt ccataccgt taaaagtagt gatatttcac ttgcgcctt 240

acgctccac ttatcctaca cctctc 266

<210> 33798

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-F2

<400> 33798

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 gtcnagggcg ccagcaagtt ccccggcttc ggcaccaccg gcgacgagca gacgcgcagg 120
 cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg atgggcgact 180
 gctccggatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa acagacggac 240
 ccaccctact atggacgagg acccatacag ctaactcata agtacaacta caggctcgcc 300
 gggcaagcgc tgaacctgaa cctggtgggc gaccgcggacc tgggtggcgag agaccccggtg 360
 gtagccttca agacgggcat ctggttctgg atg 393

<210> 33799
 <211> 207
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-F3

<400> 33799

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 agtcancgta cactatcgcc atggccgtga catcgaccgc cgtagtcgtg ctatgcccgc 120
 cgtccgtgtc cggctcttcta ctggcaccgg cttcaagaca agcgcgcgtg tcgttccact 180
 cggcgccatc gacagcacgg ctgtcca 207

<210> 33800
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A11

<400> 33800

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 caagcgtgaa ccatggcgga cgagtacggc cgcagcggct acggcaggtc cggcgccggc 120
 gacgactacg acagcggcta caacagcaag tccggcactg atgactacg ccggtggcgaa 180

ggtgggtaca acaagtcggg cggcgatgac gactacggcc gcagcggcgg cgatgggtac 240
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 ggcggcgggag acgactacgg ccgcagcggc ggcgacgact acggccgtgg caccggcggc 360
 ggcgggtaca acaagtcggg agacgacggc tacgacagcg ggtacaacag atcgggcacc 420
 accaacgacg acgaata 437

<210> 33801
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A12

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 acaaacctaa gagatccaca ttgaaactct atgatttcat gtgtggttct cttagggtttc 120
 tacacatagt gtctcacaac tttctccaaa cattctaaat tttttatcac agactctaca 180
 tatgatatac tgacatgtgg acaagtttca tgattttcta agtttgtttg tgttttataa 240
 atttttttaa cagttgtatg gcaagttcac ggccatgttg agtgagcatg gtgctcgaag 300
 tttccgggtc gctcctgaaa tcggtcgtaa cttgtgctat gtagcatgga tatcattttt 360
 gcattcacgg ttttccaagt ttcgagtgac ctgcaattca aatctgaatt ttccgaagaa 420
 attcaaa 427

<210> 33802
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-A2

<400> 33802
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 ggctcgcgcc aaccagattt tgatggattt cgggcacgcg tggcacagat cttctgtata 120
 gccagcaagg aggctctcc atctcctccg ggaaggctgt gcagcaatgg agaagtataa 180
 cagcaagact cagttagcac cttgagaga taccattt gctctccgtg gtgctcttgg 240

tagttcaagc tcataccttg agcaagccag gggctacacg tcttcccctc tagcagctct 300
gcgaccaaag atgtcttcta ctactggaaa tcgactcctg cactcgagtt gccccctgtc 360
atctcctgta gc 372

<210> 33803
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-017-Q1-K1-A3
<400> 33803

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tgaaaccaat gcaaaactccc tttttcatga gaaaggaaac tatggcaaaa tgtgcccagt 120
tggcccagtt tgatgaggag ctttaciaag ttacaggtga tggatgaagac aaatatctca 180
tagctacatc agagcagcct ttatgtgctt atcacttagg tgatagaata taccctgctg 240
aacttccaat caaatatgct gggactcca catgcttccg gaaggaagct ggttcgcatg 300
gaagggacac agctggatc ttcagagtcc accagtttga aaaaatcgaa caattctgca 360
ttacaagccc aaatgacaat gattcttggg agatgcatga agagatgcta aaaaactcag 420
aagattacta taaggagaat gggctacca 449

<210> 33804
<211> 188
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-017-Q1-K1-A4
<400> 33804

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tcgcgcgcac tcgtctgttt ctctcatgga agccgtgtga acctgtgcgt gtgtgtgacg 120
aatgaacgga actttatatg gaccagtgtc taagagtctt tgcaacataa ttatgaaggt 180
ttgtttgc 188

<210> 33805
<211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-A7

 <400> 33805

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 atcgctgatg acgactccgg tatctactac cagctggctc ttatgtggcc aggagcatac 120
 tgcgagcaga ccagcgctgg gtgctgcaag ccgaccaccg gcgtctcgcc ggcgcgcgac 180
 ttctacataa cgggcttcac cgtgcttaac gcgaccaccg acgctgcagt gacgggatgc 240
 agcaacaaag ttccttacga ccctaacctg attaccggca tccaaggcct gaatcagtac 300
 tggagcaaca tcaggtgccc cagcaacaac gggcagagca gctggaagaa cgcctggaag 360
 aaggctcgcg cctgctccgg ctcagcgaga aagactactt cgag 404

<210> 33806
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-A8

 <400> 33806

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 cgtttgatta acccgcccag taaagccatg ggtactaatt atagagcggc catttctcta 180
 gtactcctcg tgtgcatcgc tagccgctcg tccttgggtg ccgctgaaac tgacgttgag 240
 cagaagcgct cgtcagtcgc tttgatgttt gtgttcgggtg attcgctggc cgatgtcgga 300
 aacaataact tcctgccgnc gactgcaccc cgtgctgcat cttcgtacgg catcgacttt 360
 c 361

<210> 33807
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-017-Q1-K1-B1

<400> 33807

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tctgacagct atgcaagtta tggcggctcc caggcacctg gaagaggata tggggcttac 180
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ggaaagcgtc atggttatta ggatttagat tgcttgataa agcagctatc tgatggacct 300
gttattttca cttttgccac ccctgctccc ctcacgtact ataaaaacag ccaagacatt 360
gaagtttgga gcct 374

<210> 33808

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B10

<400> 33808

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cgaagggtga cacccttgag gaggtggcca tgcacaacac caaggatgac tgctggctcg 180
tcatcgggcg caagggtgac aatgtgacca agtttctgga ggaccaccct ggaggatgatg 240
atgtcctgct gtcttccact gccaggatg ctaccgatga tttcgaagat gtggggcaca 300
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<210> 33809

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B11

<400> 33809

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ctgcaaagcg gcggtgtgca gagccgccgg cgagccactc accatcgagg agatcgctcg 180

cgacccgccc aaagcgtagc agatccgcat cggggtcgtc tgcacctcac tatgccacac 240
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ggcgtagggc gtagcggaga gcgaggagga gcacgtggag ggcttcgagg cgggggacac 360
cgcggtgccg acgttcctgg ggcagtgcga gcgctgcgac tactgcgcgt atgagcac 418

<210> 33810

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B12

<400> 33810

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gggaaaaaaaa aaaaaaaaaa aaaggaaaaa atatataaaa aaataaaaaa ataataaaaa 120
ataaatgcga cgccatattt tttatatctg gtcaactaaa ttaattaac tgacagatgt 180
tttaaaacgt ggtgactgga aacaaaatga ctttaccat ctt 223

<210> 33811

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-B2

<400> 33811

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ttccttctga cagctatgca tggtatggcg gctcccatgc acctgaaaga ggatatgggg 180
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actatggaaa gcgtcatggt tattaggatc tagattgctt gatatagcag ctatcttatg 300
gacctgttat tttcaacatt gtcacccttg ctactttaac gtactataaa aacatccaag 360
actttgaagt ttggagcctg cttata 386

<210> 33812

<211> 222

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-B3
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 catcgcgccc tgcctctcct acgcccgcgg cacgggggtcc ggccccctccg cgtcctgctg 180
 taccggcgtc aggaacctca aaagcgccgc cagcaccgcc gc 222

<210> 33813
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-B4
 <400> 33813
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 tcaacttcaa tgaagtctca tacacatcca gtgaagcctc gctttcaagt cagcaatcgg 180
 cctaaatgca atttgctaaa taaaagttct attgattctg agcaaactat ccaatcttct 240
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<210> 33814
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-017-Q1-K1-B7
 <400> 33814
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 agcggcggcg acgacctcgg aggccggcat cacctgcggg caggtgagct ccgccatcgc 180
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<210> 33815
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-C11
 <400> 33815

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 caactcaaaa tatgagctgc tacttcagca aaggcccgcg acaaaggcta cctttccttt 240
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 gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 360
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<210> 33816
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-017-Q1-K1-A1
 <400> 33816

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 gccaggtcgt gctcatgggt gccgtcgagg gctaccgcat tgccggcggg ccgctcgggc 180
 aggtcgtcga cccgctgtac cctggcggca gtttcgaccc cctcggcctg gccgacgacc 240
 ccgaggcctt cgcgcagctc aagggtgaagg agctcaagaa cggccgcctc gccatgtttt 300
 ccatgttcgg cttcttcgtc caggccatcg tcaccggcaa gggcccgtc gagaacctcg 360

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<210> 33817
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-C12

<400> 33817

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ggggcatagt agctacaaca ggctacgaca ggcacattca gtcatatgag cattcatgcc 120
attatacatg aagcaattga cattgacgtg cgctttgcaa attgtgatgg ccaagactat 180
gtaacagaag cccaatcta agctatcacg atctgctaag aatcagtact gaatgatgg 240
tgcagtaact taactgtact ccgctatctg ctaa 274

<210> 33818
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F8

<400> 33818

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gcaatgtcac gcgcgatggc gcgcggcatg gtctccgca acggcggcac gatcacgggc 120
tagaataacg tgctgatcta cttcaccatc gactgcaccg acccaatcat ggacatcatc 180
atggtcgtca acttgctgga gaagctcatg caggaccgca tcaaggctgc tggcagcctg 240
gctgactacc tcagcatctc tgctaccatg tctagcgaga cgaccaacgt taccgtaacc 300
tttgacagac cgtacttcaa gagctacatg aagaacttgt ccaagaagta c 351

<210> 33819
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F9

<400> 33819

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ttctatacca attatcccta tatcacatct aaatatcact caaatcatca ataatgcaaa 180

tgcctattac attcaattaa tccttaagga aaacatatca cacacgatat aaccgcttac 240

cttaacgctc cttgcctatc cactgaacaa cacacactct tgtttcaccc tgggtataccg 300

agaactcctg gatcacttga ccatgtocac ttcaatacac taattcaata ccacctattc 360

cac 363

<210> 33820

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G1

<400> 33820

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ggttacgagt tgatgaagaa gaaagttaaa cagtatggcc agcagcttca gcagggggaa 120

aaagatcgtc gtcgggttct gaaggatttc tcgaagatgc ttgatgatca gatagagaag 180

atcgctctgt ttctgttga acaacaagga ctattggcaa gcaggattga gaagtttagga 240

aagcaaaggg caatactaca agagcagcca gatatatctg gcattgctga gttacgagaa 300

gcttataggg aagttggtat caatctcacc aaacttctca agttcggtga ccttaatgca 360

actgcatttc ggaaaatc 378

<210> 33821

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G10

<400> 33821

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ctggtgcgtt ccccaacggg agagggttatt tttggagggg aaactatgcg tttttgggac 120

cttcgtgctc cgtgggttaga acctctaagg ggccccaacg gtttggactt gagtaggttg 180
 aaaaaagaca tccaaccttg gcaagaacga cggtcagcag aatatatgac ccatgctcct 240
 ttaggctctt taaattccgt ggggtggcgta gctaccgaga tcaatgctgt taattatgtc 300
 tcccctagaa gttgggttagc gacctcccat tttgttctag gattcttctt ttttgtgggc 360
 catttgtggc atgcatgaag agcccagct gctgcagcag gctttgaaa ggaattgat 420
 cgcgatttgg aacctgttct ttacatga 448

<210> 33822

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G11

<400> 33822

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 aaaaatataa aaaaaaaaaa aaataaaaaa gaaattggaa aaaaaaaaaa aaatataaaa 120
 aaataaaata ataaaaaaaa tataaaaaat aatataataa aaaaatataa aaatatatat 180
 ttaaataaca ataaaaaaaa ttaataacat gtatacaaga ctatgtatct aaaattagaa 240
 ttattttctg tagaacatat gacatttgat taacttaaac ttaaaaatcg cattgatgaa 300
 actgtttcaa tgattgaagc atacctttaa gcctataaaa taattgtgta ctacaattag 360
 cattcaactg aaagaatata ctcatattta gctgaacctt gat 403

<210> 33823

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G12

<400> 33823

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 tcgtgctcat cgattataac ctctaagggg cccaaccgt ttggacttga gtatgttgaa 180
 aaaagacatt caaccttggc aagaactacg ttcatacataa tatatgacct atgctccttt 240

aagctcttta aattccctgg gtgacttagc tacctagatc aatgctgata attatatatg 300
ccctataact tggttatcga cctcccattht tgttctaaga ttcattctatt ttgtgggtcca 360
tttgtggcat tca 373

<210> 33824

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G2

<400> 33824

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gcagaaaggt caaaaataaa aaaagcgtac atacactaac atacaacata tataacaatg 120
ccatccccctt tcatgaatcc aattttactgt ccccttcttt acaacgtcat ccaccgttca 180
tatccccctcc ctaacctaac ttaacctcct ctcggtccat accctttccg ccggcaaacc 240
tcttgctttc ccaaacttac cctattttcaa ttcctctctc tttctccac ttaccggaaa 300
cttgaacacg ccctatagct tcgcttttcc ca 332

<210> 33825

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-G4

<400> 33825

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gtggacaagt tttggacatt attgctgctg tgagatgtag tgctaggcaa cagatggtct 120
ggttggtgga tcatggattc catggcattg agaagcttgc aaggctagat tgattgtgtt 180
ctgcgggggt aaatcttgcg tggcgttttg aacgtggatt ggtaaacaga atagcatctt 240
ttgaacgtcg gttgttccat gtccacagct gatggtggtg gcctcgaatg tcgtactgta 300
cgtccatgtc gatgattccg tcgcaggagc ctactactac tatatccctg ttctatgtaa 360
gatatgtgta ctccagtaca nacagtatat ggacagctca ngattttttt atattggtct 420

acacatacat ctttagatg

439

<210> 33826

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G5

<400> 33826

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tttgagggtca aggccacagc tggtagacacc catcttggtg gtgaggactt tgacaacagg 120
atgggtcaacc acttcgtcca ggagttcaag aggaagaaca agaaggatat cactggcaac 180
cccagggctc tccggaggct gaggaccgct tgtgagaggg cgaagaggac tctgtcttcc 240
actgcccaga ccacgattga gattgactcg ctgtatgagg gcacgcgactt ctactocacc 300
atcacccgtg ccaggtttga ggagctcaac atggacct 338

<210> 33827

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G6

<400> 33827

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gcttttccca gctcgtcact gtgcgcctcg tgtccttcac tcccgggtccg cccaaccaat 120
aatccatcga tccatccacc accaccaccc cgctgcggcg atgtgcggcg gcgccatcct 180
ctcgggtttc atcccgcctg ccgggggtggc ggcgggcgcg gcggcgggcg ccaagaagaa 240
gcagcagcag cggtgccgtg tgactgcgga cctgctatgg ccggtgcccg gcagtaaggg 300
agctccccag gacaaggagg aggacttcga ggccgacttc cgcgagttcg agcgcgggccc 360
tcgcgaggat ga 372

<210> 33828

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-G9

<400> 33828

ctcaatttaa agtgagtaaa cagaattcca tactcgatct catagatccc tatagaattc 60
tgtggaaagc cgtattcgat gaaagtcgta tgtacggctt ggagggagat ctttcctatc 120
tttcgagatc caccctacaa tatggggcca aaaagccaaa aaaataagtg attcgttttt 180
agcccttata aaaagaaaac ggattccttga acctctttca cgctcatgtc acgtcgaggt 240
actgcagaaa aaagaaccgc aaaatccgat ccaatttttc gtaatcgatt agttaacatg 300
gtgggttaacc gtattatgaa agacggaaaa aaatcattgg cttatcaaatt tctctatcga 360
gccgtgaaaa agattcaaca aaagacagaa acaaatccac tattgggtttt acgtcaagca 420
atacgtagag taac 434

<210> 33829

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H10

<400> 33829

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gtcgcagcct cctccgtccc gctcccgcgc gtccgcccag cgcgcagcgc ccgagcagcc 120
agcaccgcgc agcaggcgag ccgctccgcc tccgcgcctc tatccgccgt ccgctcgtcc 180
cgaggccgcg agccgctccg cggctacgac cctccgcccg ccgtctgccc gtccagcgag 240
cgcccgaagg cccgagcagc ggagcaggcg agcagctccg cgctccggc cttcgcccgc 300
ggtcgctcg ggctcggacc gagccgctcc gccaccgtc cgccgagcgc ctgacggccc 360
gagcaggcga gcagctccgc gcctccgccc gccgtccgct cggcccgagc agctcaactcg 420
ctcagccgca g 431

<210> 33830

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H2

<400> 33830
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 atactagttc tagatcgcgg t 81

<210> 33831
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-H3

<400> 33831
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 actatccata ctgggttcctt ttaaatactaa tgcgacctac cttttcaact ctaactccct 120
 aacatatttt acaacatata actattataa tctcatttac actaccttta attctaactt 180
 ataatccatc attcataatt tttaaacacct 210

<210> 33832
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-016-Q1-K1-H6

<400> 33832
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 agccttctta cttcagatgg caacactaag gatgatctta gactcccaac tgatgagact 120
 cttgtggccc agattaagga agggttcgaa agcgggaagg atcttggtgt gactgtccag 180
 tctgcgatgg gggaggagca gatctgcgcg ttgaaggatg ttggcccaaa gtaacttctt 240
 tggctttgga gacggaaccc tactgtatct caacttaaata cggaaaagaa gtgtatcacc 300
 aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgcata gcgtgcaang 360
 gggttgcctgg tgctgtacct acctgactta tcattatctg tgggtacaat ttggaccctt 420
 gattttctat gctt 434

<210> 33833
 <211> 225

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-H7

 <400> 33833

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 agcttaaaac ataaaaataag gacaaaaaaaa aaaaaacaat aaacaaaaaca aaaaaaaaaa 120
 ctaaaaaagg cccacctttc tgaaggaccc aacctctcta acccatcctt ccaacactat 180
 acattttttt atggggcacc aaaataaatt cacctggccc gattt 225

<210> 33834
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-H8

 <400> 33834

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 gacggctaag atgatcttaa ctcccaactg atagactctt tggccaata agaagggttc 120
 taaagcggaa gatcttgtgt gactgtccag tctcatggag gagacagatc ttcccttgaa 180
 gatgttgccc caagtaactt ccttgacttt ggaactaacc ctactgttct aacttaaadc 240
 taaaataact gatcaccaaa ggattgctac ctatacttc acctggcttg atcttgcttt 300
 tctta 305

<210> 33835
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-F7

 <400> 33835

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 atagtaatgc tctgcagaag aacctagctg ccagagaatt gctgtaccaa caccagcata 120
 ataaaaggat gagctgcccc tccatggcac agctactctc caataccctg tactacaagc 180
 gattcttccc atattacgcc ttcaatgtgc tcggtgggct tgacagctag gggaaaggat 240

gcgtttttcac ctatgatgca gtaggttcct atgagagaac cggttacagt gctcatggaa 300
cggaatctac ttgatcatc cccgtcctgg acattcaact aa 342

<210> 33836

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E1

<400> 33836

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ctggggcccg gctgatcgcc agggctgacg gcgccgtcgc tcagcatggc atgtggagca 120
tgatcacccg gcccatgttc cacagcatgc tgagccaccg cggcgacagc gggtgccagg 180
gcgccttcta cacctacgac gccttcacgc aggccgtcag caagtccccc ggcttcggca 240
ccaccggcga ctagcagacg cgcgatcggg agctcgccgt cttcttcggc cagacgttcc 300
acgataccac cggtggtatg gc 322

<210> 33837

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E10

<400> 33837

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ttctagggct aagccaaaac ggactgtcgc acgtagttta ttgaaaccct tgaattcgga 120
atatgggaaa gttgctccgg gttgggggac tactcctttt atgggggtcg caatggcttt 180
attcgcgata ttcttatcta taattttaga aattttataat tcttctgttt tactggacgg 240
aattttatcg aattaggttt ctactaacta aaactatgac ttcatagttt ttccatctca 300
aaaaaagcct ttctacttta agctccacat ttctagacat tctggtagtt cgaccgtgga 360
tttttctgat gtggtatctc tggaatatta gtgtgt 396

<210> 33838

<211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-E12

 <400> 33838

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 gaataatgag ccgcatccag ggatggagat gaagaagatc gcctgcgccg tcctcatcgc 120
 cgcctcggcc accgtggcgc tggccgcgga ggcgcgggt cegtctcca ccagcggctc 180
 ctccgcggtc gcacccgcca tcgtcggggc cgcctgggcc tccttcttcg cgtactacat 240
 tcaactgagcc gccggacgag gagccggagc cggagggaag agaccaaggt ggggggagag 300
 acttggctgc gctgcgctgc tctgctgctc ccgcgcattc ccgatgcgtg ggcgtgctct 360
 gattgggcac ggcggtggca gtggcacacc ttcgtcttac ttttggtagt attttttact 420
 tcctctttct ac 432

<210> 33839
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-E2

 <400> 33839

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 gagtaactga ggagagacct ggctggtgta gcgacctca cctgccacca tgtgcagcgt 120
 ttgttgaaat tatggcaact gtattctcaa gggatgcatg gcgctgtgta tggcatatga 180
 ttcagaacga cttggtccat ggatggggcc ttgattttgc tcttaggaaa tgtgtggagc 240
 cagcccatga gaaaattgga gtggttgact ccagtggtat tgttcatcaa gtcacccctt 300
 cgcttggtaa ccagggcaag gcagagaatg gaaaagcacc atgggaaggg gtagagcacg 360
 ctgtcgtaaa gaagggggga tgttccaaac aagg 394

<210> 33840
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-016-Q1-K1-E5

<400> 33840

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gcctcgcgct cccgccccct ccggggaccg ctgcggtggt tgaggcgacg catgaggagg 120
aggaggacca ggagtgggag gctgcgctgc agaagtggaa gaccaagacc tacgcgctct 180
cgggtgccct acgggtcgtc gcgctccgcg gctccttccc tccatcttgg attaaggatt 240
tcgtcgaagc tcagggaag agactcaaat tcagtcctga actccgtgct aatcttgatg 300
ggatcttctc tgagatgtca caatgtatgg acaagggtca agttcagccg aagtctgcaa 360
tggcagctga tgttgtttcc ctggggactc tnggctcggc tatgccatcc gtaagggtatt 420
gctagagcct atcatgaatg ctga 444

<210> 33841

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E7

<400> 33841

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attgtggatt tggcattacc aaaaactcct aatgataact ctctgtcatt gtttgctgat 120
ccccttgctc cagagagatt ttattgtgcg catgggtggg ggcttgacat ggtcacactg 180
cacttctac cattttcata cctgaaatg tcttcgacac caccctctgt gcatcctgtc 240
ctcactacag ggaacagcga aacaagctca ccttttcttt ctggatttgt taccatagct 300
gatgcatatg gtcattgtaca gttagctggc atcacatgc 339

<210> 33842

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E8

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gttcgtacac tcgcggtcgc actcataacc gcatatggct ttcaaggaga acagcctctg 120
gccaatggaa caatgtaagc aaggggaagtg cgtaaaacgg atccgtaact acaggaaaag 180
gattgtctct gagggttgag ctccgtgac cgggtctact aaccgctctg ctgctggcgg 240
aatgatcgag ctgctcacgc gcaaataag 268

<210> 33843

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E9

<400> 33843

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cacaatgcgc aatcaacgat atgctacaaa tgctgtgaca gcatttattt ttcgagaaat 120
tgctgagaga caccagctac ctatacagga ttttgttggt cgcaatgaca tggcttgtgg 180
ttcaacaatt ggccaatac ttgctagtgg tgttggtatt cgactgttg atattggagc 240
acccaatta tcaatgcaca gcatcagaga aatgtgtgcc gctgacgata ttagctactc 300
atatgagcat ttcaaggcat attttgaaga atttactgaa ttggatggca aggtcaaagt 360
ggattactaa agcatatagc acaatagggt agctttgtta caagctgtac ttatacaaaa 420
ttcgataagc aagtggagaa caaatttg 448

<210> 33844

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F1

<400> 33844

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gccgggctag cagcgcgcg tgctctctct ctaccctccc tgtgtgcact aaactactag 120
gagtctaggt cggggctacg acaactggtc agagacgacc agcaccacc atgaaaaggg 180
ttgctcctag cctactacag atagggatgt ttacgatcaa gctacaatga aggattctca 240
ggatattcag agcacaacag agttgcagtc atcagcacag ggtactaatg aagtgcatag 300

tcagcaacca aaccgatga ccactgatgc tcttgc 336

<210> 33845

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F11

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ggactcgggc tgagatcggg tgggaaccaa agtatccaag cttcaccgaa ttccttggtg 120

tcagcagtta acatccttgc atactgttca gttagtctga ctcagctgag ttgcaaccgt 180

gattagattg tacatcggtt gaatttttat atgggtctgaa ctggtgatgg tgtacatctc 240

agcctaattt tttattctca cagtatttga gctgtgaacc agacagatgc caccocatcc 300

cactggacaa tatatactgt cacgtgagtg gatttctcga tcaaaataaa at 352

<210> 33846

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F12

<400> 33846

accactctt cctctaagtt tttaggcttt attggtactg actttccatt tttgaagaga 60

atgtagaatt caagatctct gtctattatc atatgggatc gaaagtatcc aatcttcacc 120

taattcctta ttatcagcat ttaacatcct tgcatactgt tcagttagtc tgactcatct 180

gagtatcaac cgtgattaaa tcttacatcg tttgaatact tatatagtct gaacttttga 240

tggtgctcat ctcaccctaa tttattattc tcacagtata tgatctctta tccaaacaaa 300

taccactcta tactacttaa cactatatac tgtcacgtta atagatttct ctat 354

<210> 33847

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F2

<400> 33847

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acatcgaaag gccaacctac accaacttga acaggctgat ctcacagatc atatcatctc 120
taaccacctc cctgagggtt gatgggtgcta tcaatgtgga tgtcaccgag ttccagacca 180
accttgttcc ataccacgt atacatttca tgctttctc atagcccct gtaatctctg 240
ctgagaaggc ttaccatgag cagctctctg ttcttgaaat caccaatgcc gtctttgagc 300
cctcaagcat gatggccaag tgtgacccaa ggcattgggaa gtacat 346

<210> 33848

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F3

<400> 33848

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gattgcggca gcagcagaag cggcgcgag agctcgtgac gagagcaacc ttccttccgt 120
tcctcgatcg ccatggacaa ggtgctggcc ttctcgatcc tgagcgcgtc gccggccgac 180
ctctccttca cgggcgcggg cttcggcggg agctgggcgc ggctgtcgtg gcggcggggc 240
gcggacgacc agcgtgcgcc gcggcgggag cagcagaagc agcagcagga ggaggacagg 300
gagaagcgag acttgcgctc cc 322

<210> 33849

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F4

<400> 33849

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agaaagtgag acaaagtga gcgaaagagt tttctttgta taagaattag gtctatatca 120
tatctaaata gaagggaat caaaaagaag ggaagtggg attacattgg atgaatcctt 180
aaggaagaca tatcacaaaa gaaataaagg ctaaagtaag cgctccttgc ctttggtttg 240

agcaaaacag attcttgttt caccgaggaa aagagagaag ttctggataa attgacaatg 300
tcaacttgaa ttgactaatt cagttccgcc tattccacat taatgggagt acatttatgt 360
ttctgcttta cgaatatgat attttt 386

<210> 33850

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F5

<400> 33850

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gctgtaaaca tgcctgggaa ataattgggg acctggattt gaataagatt tgagttgttg 120
ggggcggacg tgctacatta ggccttggtc gggtattcct aatacccttc ggtgcaataa 180
aggaaatcat cttgcgcgtg accgagcgtg cac 213

<210> 33851

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-F6

<400> 33851

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gtaaggctct gcagaagaac ctagctgcca gagaattgct gtaccaacac cagcataata 120
aaaggatgag ctgccccgcc atggcacagc tcctctccaa taccctgtac tacaagcgat 180
tcttcccata ttacgccttc aatgtgctcg gtgggcttga cagcgagggg aaaggatgct 240
ttttcaccta tgatgcagta ggttcctatg agagaaccgg ttacagtgtc cagggaacgg 300
gatctacttt gatcatgcca gtcttgaca atcaactaaa ataaccaagt cctctattac 360
tcctgtcag ggatgctgtc aca 383

<210> 33852

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D9

<400> 33852

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cccctgagct gatgcccctc agccatgtcc ttgccaccaa gcttgggtgct cgtctcacag 180
aggttgcgaa gaatggaacc tgcccctggc tcaggcccga tgggaagacc caggtgacag 240
tggagtaccg caacgagggt ggcgccatgg ttcccatccg tgtgcacaca gtcctcatct 300
ctaccagca cgacgagaca gtcaccaacg acgagattgc tgctgacctg aaagagcacg 360
tcatcaagcc agtcatcccc gaacagtacc ttgacgagaa gacaatc 407

<210> 33853

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B6

<400> 33853

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120
ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180
cgttgaacca aacgtacttt tccaacattt catatatatc ttaataatta cattt 235

<210> 33854

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B8

<400> 33854

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gtagcgtcga cgtcgtcctc cctactgcat gccgcgagcg ttgccggccc ggcggtgagg 120
cacggtgacc tgcccaccct gcaggtgcca acgcacctcg gagtcgccga ctggacgcag 180
atgcaggacc cgtttcagct gcgcagcccc tggcaggacc acctcttctt ctctccctta 240

gccacactgc tataactgaag tctgaactct gaagtgagga aggtgcacgc gcaacttgga 300
 agaagtgggtg aactgtatca ccgaaatgcg gttcagctct gcaacggcga gccgtgatgc 360
 tagcttagat gtgaattcgg ttgaggatat actgcacgaa caagtggaag tagaagaaga 420
 agtgagtact cgtatcgg 438

<210> 33855
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-016-Q1-K1-B9
 <400> 33855

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 cggaaccag gaaaaaaacc ctactaaaac agaccacaaa aaacaaaaaa aacaataaa 120
 acaacaaaag ggcccacccc tatatggctc ccaacctatc gaccacatcc agactagggtt 180
 aacgctgcta caacgcctac ccataactcc tgaaatgacc agactttata cactcgcgtc 240
 cctgtaaaac ccttgcagct acccatcata taggactggc ggcactcccc cttttgcccc 300
 ccatgcccac ttagcaatgg gccctaaaac actccactga ccgaacttaa gccc 354

<210> 33856
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-016-Q1-K1-C10
 <400> 33856

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 gcgccggcgg gaggcggacc cggcggcggc gatggccgcg gcgcggcacg agttcggcga 120
 gcacggcggc gtgaacatgt ccatcgaggc gtcggcgacg ttcacgggtga tggagccgga 180
 cacgatgcgg cggctgttcg cgggcgagct gggccccgac cgcggagaca tgtacatcta 240
 cagccggcac ttcaaccga cggtgctggc gctggggcgg cagatggcgg cgctggaggg 300
 cacggaggcg ggctactgca cggcgccgg gatgtccgcc atctcgtccg tgetgatgca 360
 gctggtgggc gccggcggcc acgtggtggc gtcgcggtgc ctgtacggcg ggacacacgc 420

gct

423

<210> 33857

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C11

<400> 33857

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ggcgacaagt gcattttttac ccgccatcag cacaatgcc aataactac 120

aaccaccacc ctatgaacat gatcaaactc cagaatctgc tacatacagc atttaaatccg 180

ttcactatgc acccactatt cgatctccaa ctctaccca accgctatca catttacatc 240

tacagtctac attcaaccc tacataactc attctccatc tgtacattgc gtctctgcta 300

atccacgaaa actaccctac tta 323

<210> 33858

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C12

<400> 33858

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gatacgagga gagaatgatt catgctgagg tatgctactt ctgtgtacag atgagatata 120

tcatatttcc aacctactcg ctagtatgtg tatcataata taggtgctga ctatatagaa 180

ttagactgct ctagtgagct tccaagaagt tcattcgctc caacagacaa gtatctttgc 240

cttgcaactt gggataccaa agctccaaca ccgcaccag 279

<210> 33859

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C2

<400> 33859

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gctgtcttct gccgtcccgg ccgtttaatt tactagtgtg ttcgtcctat atgttttagca 120
gcagcaggtg tattgtgcgg gtatgtaatg gtattgcaac tatattgggt gtaaaaccat 180
aataaatgtg ggcaaatatg caagg 205

<210> 33860
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C7

<400> 33860

cccacgcgtc cacacacgcy tcctgtcgtg gtcaccctga tgcaaccaga caagagcgac 60
gggtataacac actttgcgtc gctgccaaac cgcccatcgt agcaactcgc ctgcacggca 120
ttcggcgctc aagccggctc cgtcaagatc aaatactccc tgcaaga 167

<210> 33861
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-016-Q1-K1-C8

<400> 33861

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atggacgcgg tcgattctgt ggtggatccc ctccgcgact tcgccaagga cagcgtccgc 120
ctcgtcaagc gctgccacaa gcctgaccgc aaggagttca ccaaggtggc agcgcggacg 180
gcgatagggg tcgtcgtcat gggcttcgtc ggcttcttcg tcaagctcat cttcattccc 240
atcaacaaca ttatcgtcgg ttccggctag gctcagggcg cgactagcat gggagtagtg 300
cgatactttt gagagcaagg gatagcgagg atcttggctc ttggaatagt attgttaatg 360
acattttttt tccggtggng tttctggaat aaatcgttga acgac 405

<210> 33862
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C9

<400> 33862

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tgatgaggaa gaggaggaag ccagcgacgg tgagggccct acggcctatg ttcctgtcaa 120
ggttaccctt ctgcccgtcg ctgaaggggtg cctcgtcctc ccgtgagtcc gtggtcgggtt 180
aaataaaggg ccgtatatga ttgcgagccc tgtgctctgc cgctattttc ttctcgtttg 240
tgtcttgctg ctctcgtggt gaactcgcta ctccagtgtt ctgcaatatt aagcagaagc 300
tattgtattg tt 312

<210> 33863

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D1

<400> 33863

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gggtgagcgg atcgagatgg cggcgtcgga tgttgagtac cgctgcttcg tcggcggcct 120
cgcctgggccc acggacgacc actcccttca caacgccttc agcacctacg gcgaggtcct 180
cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac 240
cttctccacg gaggaagcga tgcggaacgc catcgagggc atgaacggca aggagctgga 300
cagtcgcaac atcacctca acgaggecca gtcccgcg 338

<210> 33864

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D11

<400> 33864

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gaccaagtac tttggatgtg agcttggtgc acagtccaaa tttgatgaga agacagggat 120
ttccttggtt aatggggctc atgatactgc aaagctggct ggtctccttg aggtattcat 180

caagaagtat gtccaatgtt atgggtgtgg gaatcctgtg actgagattc tcatctcaaa 240
gaccagatg atatcatcga aatgtgcagc ctgtgtgttc gtctcagatg ttgatatgag 300
ggtcaagc 308

<210> 33865
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D12

<400> 33865

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tgaaattgca ttttagtttc ttgcgcccttg ttgtttaaag ctcttcaact tattggcatc 120
atgaggaact gtcgtgagac atcaatggtc agagtccgac cataaccaca tatatagttt 180
taacaatgtc tcaagttttg tgttattacc tgttgtctgt tgtctgccat atgtaatagt 240
ttcctttcag aaggcaaaag cacttcttcc ccaaaaaaaaa aaaaccaaaa tactcataaa 300
aacaaaaaag aacaaaaaaa aataataaac tactaccacc 340

<210> 33866
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D3

<400> 33866

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ctgctgtcaa tgattagaaa cggactatac tacaccccggt agtacgaaac caaggatact 120
gatatttca cagcattccc attaactact catatccaaa ctctctctga agaatcatga 180
gctgcagtag actgccaatc ttctactagc acatgtacaa ctgtatgcac tgatacactt 240
accagacttg atcgatacaa acgaccatgc tatcacatcg agcccgtttc tagggaccca 300
tatcaatata tctgttatgt agcttattca ttatacctat t 341

<210> 33867
<211> 277

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-D4

 <400> 33867

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 aaagaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagactg cccctttttt aaattcccat 180
 atttcccccc cctcaattcc aattttttaa aatttttttt ttgtcccca aattcaatta 240
 catgtccctc tttttaaaaa ttctttacct tgaaaaa 277

<210> 33868
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-D6

 <400> 33868

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 tctcgccgcc gccacaccac aaccgcgtga agcgaagcaa gcaatggccg gagtcggatc 120
 gaaggccctc gccgttgccg ccgtttctggc ggccgtctcc ctctcggtgg ccgccgcggc 180
 cgaggcgccg gcgcccagcc ccgtctccgc cgcgcgtcgc gcgtcgtcgc ctttcgccgc 240
 ggccctcgtc gcctccgcgc tcgccttccct cttegcgcgc gtccgccact gagccgatgg 300
 ggccctcgtc ctgcaggcta cctagcagta ctttcgcgcgc tgctgccgcc gc 352

<210> 33869
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-D7

 <400> 33869

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 ccagctcgcc ttcgccacac gacaaccggt cgaagcgaat caagcaatgg ccggagtcgg 120
 atcgaaggcc ctgcgcgttg ccgccgttct ggccggccgc tcctctcggc tggccgcgcg 180

ggtcgaggcg cctgcgcccc gccccgtctc cgccgccgtc gcggcgctcg ctcccttcgc 240
cgcggtcctc gt 252

<210> 33870
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-D8

<400> 33870

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gagagcgggg aggaagaaaa accgatcgat ggcgccaac tacgtggaca cgacggggcg 120
ggagggacgg ttccacggcc ctacacagcca cagcaccagc acgaccccga cgggcgggcg 180
ggcggcggcg gcggcatcgc cgcgcaactt cgggcgcagc ttctcctccg cgtcctccgc 240
ggtcacacag cactgcggcg gcggctgtgc caagtgcgtg tgcgcgccct cgacccacgc 300
cgggtcgttc aagtgcc 317

<210> 33871
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B4

<400> 33871

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gggaccggcg tcgagccctg cttcgccgcg cccttcgtcc ccgtcgcgcy gatgaagcgc 120
gcggcagcgc aggcctagct ggcttgccgc gatcgacgac aggcagagtt gggtaccgct 180
gctacgacgc ctacgcgtga cgctgaagt gaatagactt gcttcgctcg tgcgatctc 240
ggcatgtagc agcgaatcat catgtaggac agggggcgct ctcgctgtgg tgcccagccc 300
cagtgcgcaa tggcatatag aacactccag tgactgtact taaatcttat ggaacttggg 360
tctgctactg ataactaatg aaccaatgtt ttc 393

<210> 33872
<211> 334

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H3

 <400> 33872

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 cgccccgcgag ccgtccccgcg tgttcacgtg caactactgc cagcgcaagt tcttcagctc 120
 gcaggcgctg ggcgggcacc agaacgcgca ccggcgggag cgcacgctgg cccggcgcg 180
 gctgcggtc gacgcggcg gcccctacta cggctacggc tacggctact acgccgacgt 240
 cgcgccccctg ccgctgtacg gctcctgctt gtaccccatc ggcatccagg cgcacgcgtc 300
 ggcggcagcg cttccggagc acgaggacgc gcgc 334

<210> 33873
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H6

 <400> 33873

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 cactgatcag aatcaccgca tgcacactgg aatcttgact tagaagcgtg catgcgtacc 120
 ccttgacaca agaactccta ccgattgggt tttcaacaaa tcacaatgac cacttgaggc 180
 aatcaactgt tgctctagga ctaggtggat ttact 215

<210> 33874
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-H8

 <400> 33874

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 aattcagttg taacatttct gatttaaagt aaagatacat ctgaaagtgc aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaataataa aaaacaaaag aaaatttaac ccactggctt ttttaaccaa cgcaatgaac 240

aaattgtgtg aattaaacag ttactttcat actatggtga a 281

<210> 33875
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A1

<400> 33875

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aaggaaataa ttaaaaaaat aaaaagatca taaaaaaaaa aaatataaaa taaaatataa 120
taatataaaa aaaaattgaa aaagaaatct actaagtata aatattatga cgaataaaaa 180
aattgtcaaa gctacataaa atctgtactc attgtataaa tactaactta tttaaataa 240
cgtttatgaa cataaaattt attatgttaa aaa 273

<210> 33876
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A10

<400> 33876

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gcggcacatcg gcccgtcagc tggatgtacg acaggaccag ctaccggaac tgcccctgca 120
ccagcctctc cgggatgctg accgtcagct ggttgtgcc catgtccatc gaccgcacgc 180
tgggcaggtc ggcgaacgac tcctggatgc cgtgcgtgag ctggctgctg gagaggtcca 240
ccgagtcgag gccgaacatc ctctccaggg acttctggat cgcgccggac acctaggtgt 300
gggagacagt catgaactgc aagttggaca gcgcgtgcag gcacgcctg atggggcccc 360
tcagccct 368

<210> 33877
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A12

<400> 33877

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gggtaatggc accctacaac tggatcatca tcaggaacac agaccgcgac tggagttgca 120
gactgcgcat ctacatgcag cattcttgcc gagatcctca tagatccata ctacccgatg 180
ctaaacaaca tcttgaacta 200

<210> 33878

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A3

<400> 33878

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gggagaactg gcacctaccg ccagctcttc caccctgagc agctcatcag tgggaaggag 120
gatgcagcca acaactttgc ccgtgggtcac tacaccattg gcaaggagat tggtgacctg 180
tgccttgatc gcatcaggaa gcttgccgac aactgcactg gtctccaggg ctctctcgtc 240
ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct agagcgcctg 300
tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc cccccaagtt 360
tctacttcgg ta 372

<210> 33879

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A4

<400> 33879

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atgtgagagc tggcacctac cgtgggctgt gccaccctga gcagctcatc actggcaagg 120
atgatgcac caacaacttt gcccggtggtc actacaccat tggcaaggag attgttgacc 180
tgtgccttga tgcgcatcagg aagcttgccg acaactgcac tgggtctccag ggcttctctg 240
tcttcaacgc tggttggtgga agaacaggct ctggccttgg ttccctctctc ctatagcccc 300

tgtctgttga ctactgcaga aaatccaaac ttgggttcac tgtagacccc tttcccccca 360
 attt 364

<210> 33880
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A5

<400> 33880

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 gataggtaaa tataaagacg tagcgaatga aaaaagaaaa catctattat gtacgtccaa 120
 catattctgt taactaacca gccattata gtcattgcta ctaattatag agcggtcatt 180
 tctctagtag tacttatgtg catcgatagc ccttaatgct tgcacggccc ttaaaactgac 240
 gttatgc 247

<210> 33881
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A6

<400> 33881

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 tgcgcgacga tgtaccaggg cgagaagctc tgcctcaaca tgcacttcta gctgttgtgg 120
 gtcaagaact gtctgaggtg cagcctcacg cacacattgt gccttggcct cacgcagtgg 180
 ctggcgtagg agggccgatt ctggtggact tgggcatgga gaaacacaac tgcacaatga 240
 tgacgaggtg gcttcgaccg aggcttctgc ctctactgct cctgatttgt atggtaaacc 300
 aagaacctgc aaggatggat ggagcaattt attatctgtg gactctgtta tggatggatc 360
 agttgc 366

<210> 33882
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A7

<400> 33882

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atcatcaatg ggagagctct cacatactcc cggctgttac accctgacta aataatcact 120
tctaactatt atgcatcacg acacactctt acctgcatca ctaaaacaca cat 173

<210> 33883

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A8

<400> 33883

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catagccatg gtgcggcgag cttttgcggc gcgaggcgct agcggtcggg ctgctgcggc 120
accggacggc gcctacgcgc ccgtcgggtcc cgtggcgatc ttgctcctgc ggtggccgga 180
ggcgccgggc ggcatcgcgg cgttcgggtgc ggcgagggcg ccagaaccgg ccggcagagc 240
actgcacaac gcatactac 259

<210> 33884

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-A9

<400> 33884

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gtcgattaca ttttcacagt gggagcttct tcaattatga atgcttcttc tgaaattctt 120
gtgaacttag agaaattgct agatgagaaa tctcagagc cttggagtca gcaccgtctt 180
cccacaatga cagctaccta tctgtctgtc attgacagtg atgtagagga agatgaagca 240
agagaattcc ccaagaccgg taaatgtggg aaatctgcat caaggccatc tgcgatgtct 300
agtgatgaca gcttccttca gaaagactgc accgctgaac aagccgtctc taagcagatc 360
agagcacttc gcaagaagct gcaacagatt gagattctcg aggctaaaca acttgcaagg 420

catcagcttg acagtcagc

439

<210> 33885

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B1

<400> 33885

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tgctccaaaa cgagatgttg ctcagattga acaaggctctt atcagtgttg aaaaggatgc 120
ccagcagcgt cctaggggaat catctacacg aaggaagcca gcttcaccac cgcggaacg 180
atctccaaat cgaagggctg aatcgccac gctgtcacct gacccatcac ctaagcgtcg 240
tcctgattct acgactatct gtcgccgacc agatccttct cctgtcaagc 290

<210> 33886

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B10

<400> 33886

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gatgggacaa ccacttcggg tgctccttgc caagggatga ttactgaggg tgtaaagggt 120
gtagctgttg gtgctaattc agtgcagatc acccgtggta ttgagaaaac agccaaagca 180
ctagtcatg aactccaaaa gatgtccaag gaggttgagg acagtgagct tgctgatgtt 240
gctgcagtta gtgcgggaaa taactatgaa attgggaata tgatagctga ggctatgaaa 300
aaggttgggc ggcaggaggt ggtcacactt gaagaaagaa agagtgtga aaataacctc 360
tattctgttg agggaaatgca gtttgaccgt ggctatatct ctcctactt tgtgactgac 420
agtgaaaaaa tgacagtcga gta 443

<210> 33887

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B11

<400> 33887

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gtcctacttt cttccacagc agaaggaaac ttgagtcgtg agcgcagtgg tgcattccaat 120
ccacaaagag ctgagggttag tcagccatgg cggcaccgtc gaccgaggac tgcggctggc 180
tgctgtacct ctccctggcc gacaaatgcg gcgaccctag ccgcctgctc ggcttggcgg 240
cggctcttctg cggcgcctgc gtcgtaacgt cgctcctgca ctgggcgtgc ccgggcggcc 300
ccgcctgggg gcggtactgg tggaccaggc gaggcgggct gggcatcggg cgggcccga 360
tcccggaccc ccgggccctg cagtgggtccg cagcatgggg ctgatg 406

<210> 33888

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-B12

<400> 33888

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caatataaat gcggaggaga caacttttag agaactcgtt cgcttttggc ctgaatagga 180
tgtatgagtg cgcccaaagt ggacatgaag acttttttat gcccttggtg ctctatcggg 240
gatattactg cttaggcatc atgctcctga cgtagcagct tgagccaggg accaaaagaa 300
ggtttctaac ataatctatg acgatcttga atgggtctccg aagttagcta tgtctggaat 360
gatcgaaaag cacactgctg ctaacatta 389

<210> 33889

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H2

<400> 33889

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ggattatgct ggagatctga gagtagcagc ttcaaattgg aatggaaaag gctctttcct 120
 attcacctcg agtactgctg tgtatgactg cagtgcacaat ggattctgca gtgaggattc 180
 tccttgtgta cccattgggc aaagcactcg tactgatgtg cttctaaaag ctgaaaatgt 240
 tgtccttgag gcaggcggct gtgttcttag gctagtagga cttataaat cagatcgggg 300
 tcctcatgtt tactggctgt caaaaggaac cttggatgtg cgtcctgac atatactcaa 360
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 gagctgcatc tttgtgggtt gtgac 445

<210> 33890
 <211> 118
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-016-Q1-K1-B2
 <400> 33890

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 aatgataaaa aacaaaacgt taaatcaaat tgtaaaatgt cttacaaatg ctttaaaa 118

<210> 33891
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-016-Q1-K1-B3
 <400> 33891

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 atttgттаag tggagaaggg gaaaaccgta cagttcacta canaaagcta agcgtggctt 180
 gaaatctgca tgggtgctttc tgtcgattat taattattca atgatatagt acgaagttat 240
 acatagatgc gtatgtgaga cccaatgaaa ccaaatttag atatntggca taccatgctg 300
 ttcttctgcc aaaaagatgc aacgctcttc tttacaaagg tctctctcta gtggtgaagt 360
 cttagtggaa ctgt 374

<210> 33892
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F3

 <400> 33892

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 acggcctccg gggctacgcc gcgcccaggt ccgcgggtggc ggcgctgccg tccgtgaggg 180
 tgggcaggaa gaggtcgtcg tcgcaggga tccgctgcga ctacatcggc tccgccacca 240
 acctgatcat ggtgacgacg acgacgctga tgctgttcgc ggggcgggtc gggctggcgc 300
 cgtcggcgaa ccgcaaggcg acggcggggc tgaagct 337

<210> 33893
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F4

 <400> 33893

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 atggccaagg ccgagctgct cctcgccctc gtggcttcgc tcgtcgtgct gccattctcc 120
 tccctcgccg tgtaccagga cttctgcacg gccgacctat ccgccgccgc cacgccgggc 180
 ggctaccgct gcaaccccc gaaggacgtg accgccgacg acttccacta tgggggcctc 240
 gccacccccg gcacggcgct gaaacccttc aagatctccc tgggctcggc cgctcgtcacc 300
 acgttccccg gcctgaacgg gctgggcacg tctgccgcgc ggatggatgat ggtcccgggc 360
 ggcgtcgcgc cgctgcactt ccacccggga ggcaccgagc tcatcttcgt catcgagggc 420
 agcgtcgtc 429

<210> 33894
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F6

<400> 33894

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cgacgccgag cttgtttgtac aacgcgtggg tgttcgtagc ggacaacatc gcgcacatat 120
gtaagcctgc cgccatctct gtacgtgatg acgttaaacg gcgtcagcac gcagtgcac 180
tcgctgcaca gcaccgtgaa cgtctgcaac ccctacgact accacttttg catctgcgag 240
gtgacctaca cgctcctgta cgctgcaag gtcgtggtgt gctccaccat gcgactacac 300
ctgctggatc ctgcacagcc tgtgcatctc gcttgagatg atcgtgaagg tgccctacga 360
cttcc 365

<210> 33895

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F7

<400> 33895

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gacacctgcg ttatctcata acagatgtgc tctcccagcc aaactcccca cttgacaatg 120
tcttgcgctc agatcgggcc acataggcgg gtccttgctg tcaaaacgag aggcgggtgcc 180
cagctaagga cccacggaat a 201

<210> 33896

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-F9

<400> 33896

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ggatgatgag agaaaggctg cattggctgc ccagtttgca gcagaagcaa ctttgcgag 120
agtacatgca gcccagaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
tgaagctgag ctaaagcttt ctcgccagga gattgcaa atctccaggatg acaacagagc 240

tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacaggaacc aagagttgat 360
caagcaaatt gagatctgcc atgaagaana taaaatctta gataagctgc atcgccaaaa 420
gattgcagaa gttgaaaagc tt 442

<210> 33897

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G1

<400> 33897

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cggcgagctt taacgcctcc gaactttaccg ccgaccccaa ctgggaggct gcccgggcca 120
cctggtacgg tgcgcccacc ggcgcgggcc ctgatgacga cgggtggtgcc tgtggattca 180
agaacgtgaa cctgccgcgg ttctcggcga tgacatcgtg cggcaacgag cccctcttca 240
aggacggcaa gggctgcggc tcctgctacc agatacgatg ccagaaccac ccagcctgct 300
ccggcaaccc ggagacggtg atcatcaccg acatgaacta ctaccccggtg gccaaagtacc 360
ac 362

<210> 33898

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G10

<400> 33898

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tatgggaaaa aaaaacataa aaaaaaata caatagtect tgctctgttc tggttccact 120

<210> 33899

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G11

<400> 33899

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tgctccagcc ttgagaccat cgtgaagtgc aaggaagctg aggcgaaact gttccagaaa 120
ctggccgatg atgccaggaa ggaggtagac agctaccggc agatcgtcog caccaagacc 180
cagaaactag aggaggagta cgccacgaag gtggcaaagc tgtgcttcca ggagacggag 240
gagaagagga ggaagaaagt tgaagagctg aagacgctcg agaactcgca ctacgactac 300
cacaagatga agctgcggat gcagaccgaa atccagggct tgctcgagcg gatggaagcc 360
acaaagaaga tgtgggtata ggctcctgtt aacaatttca tgttgctgct gcttaatgtt 420
tcgggtatag actccagcta acaactgcct gatgct 456

<210> 33900

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G12

<400> 33900

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agaggtttca tatattctat tccaacatat agaactatta tattacaaat ggcaaaccga 180
accttcataa gtacattgag gaagtgtaca cgattgatgc atacacacag actatacatg 240
accacatct tttacttgat catacatata atcatcttgg gattgcttta aaccttgctg 300
cctatgatga ctc 313

<210> 33901

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G2

<400> 33901

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cagatccagt taaaattcaa gctattgccg agtggccagt gccaaactgt ctcaaggatt 120

tacgcagttt tttgggcctt gccggctact acaggaagtt tattaggcat tttgggggtca 180
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 atgggtattgc atttgacact ttaaaaaagg ctttggtgac agctcctggt cttgcattac 300
 ctgatttcac tgctgctttt atcgtggaaa ctgatgctag tgctgacggg gtgggtgcag 360
 tcctcatgca aaaaggatcat cctctcgctt tgcttagtaa ggccctgggt cccaagtcta 420
 agggattgtc aacatactaa aaatagtact 450

<210> 33902
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-G3
 <400> 33902

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 acacaagccc ttcaacgggg tcggtttcaa acttcctac accttcaagt ccttcgatct 180
 ctaggcgggtg tttatcgag 199

<210> 33903
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-G5

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 ctgcaggatc cagcaggccg aggaaggagt cagcggcggg ccggagaaaa tgagcggcaa 120
 cggcgcgaag aagggtggtc atgcggcggg gaaggccggc aggacgatca tcgactggga 180
 cggcatggcc aagttgctcg tcaccgacga gccgcgcaag gagttcgccg ccctccgccg 240
 cgctttcgat gacgtcaacc accagctcca gaccaagttc tcccaggaac ccagccgat 300
 tgattgggag tactacagaa aaggaattgg atcanaagtg gtggatatgt acanagaggc 360

ttttgaaagc atcgagatcc cg

382

<210> 33904

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G6

<400> 33904

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gactctgtgc cctgggtggc tctttctggt gatatttatg acggtgtact tcttcgttgt 120
gaggcgcaag tggtcgccgc actttctgag gttccatgtg atcctagcga tccttctaga 180
cactggctcc caagcagtgg ccaccatgtg tacctggatg ccaagcatcg tttatcaggg 240
gaagccaatg cagtacttct ggatgtctat cgcgttcata cagatcttca cagtgtctga 300
gtgtttgctg tgcgctctgt gtggaatgta tcctaattgc ccattcatat cccacaccgc 360
tttcattcac tctgatctga atctgttcag gtaggtgctt actacataag gtccaggact 420
caaggaaaga tttcggaatg gctacttaca gtt 453

<210> 33905

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-G7

<400> 33905

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gcaggcccaa gaagggtggtc gacgtttctg atgatgcatg tgagactatc aatgactgta 180
aacacttggt caaaatgatc ggcaaccacg agtacctcaa tgacatggat ggcctatgac 240
gggctgtcaa tgacgtactt caggatgtct ataccaagtc atacacagta tccacagtgc 300
tatagatgt 309

<210> 33906

<211> 164

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-G8
 <400> 33906
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 ttgcacttat tggatttccc agtgttggaa agtcaactct tttaacgatg ttgactggga 120
 cacattctga agctgcatca tatgagttca caacgcttac ttgc 164

<210> 33907
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-G9
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 tcgcagcaga agcatccccgt cccctccgct tctccttgct ctgctctggt aacacacaga 120
 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240
 aggaagaagc aatcaagaag aagtttggag gactaatgcc caaaaagccc ccactcatct 300
 caaaggatca tgagcggggc tactttgatt ctgctgactg ggctctaggg aagcaagggtg 360
 ttgccaaacc caaaggaccg ctggaggcac ttaggcccac gcttcagcca acacgccaac 420
 aacagcaaca acgtgcaagg cgccctatct acacttcgtc ag 462

<210> 33908
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-015-Q1-K1-F12
 <400> 33908
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 aaaaataagg acaccaagga taggggcaca ttacatctta aggtaaagta ccacccttt 180

acaaaggaag agcagctgga agccctagag atggaaaaac aagccataga ggagaggaag 240
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 tttgtgggta ctggcattgg cgctggcctc ggtttcgttg gttcaggaat tgggtgctggc 360
 gcaggccttg ttacctctgg tattgggtgct gtcagcagtg gccttggtta agccgggaag 420
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<210> 33909

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-H1

<400> 33909

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 acgtttccat gccttggggt tgccttcttt tggcttccag gttttttttt gcggtcacct 180
 aactcccttt ttctgttctc gggcccccaa ctttacttcc tgtgacctc cttgtgctac 240
 cctccttttt ggaatctect gtttttcccc 270

<210> 33910

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D2

<400> 33910

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 caggatgggc aaccacttcg tccaggagtt caagatgaag aacaagaggg atatcactgg 180
 caaccccagg gctctccgga ggctgatgac cgattgtgag acggcgaaga ggactctgtc 240
 tttgactggc cagaccatga ttgagattga ctgcgtgtat gaggtcatgg acttatactg 300
 caccattacc cgtgccaggt ttgatgagct caacatggac ctgttcaaga agtgcac 357

<210> 33911

<211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D3

 <400> 33911

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 tgtgggtgtg gaggggt 136

<210> 33912
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D4

 <400> 33912

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 aggaaccggc ttctgcagag ttccgagatc tcattctatc tgatctctca ttttcgacct 120
 gctaattctc ctctcatttg catacaatat actttatttg aacctcttcg tatctcattt 180
 ctcatcatct cttcatctta ttcatattag actatttcct tataactctta ttaacctatc 240
 ttacacttca ttataggatt a 261

<210> 33913
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-D5

 <400> 33913

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 agccgaggac cggctcggtg tcgccgagga cgccggcctn ctccagggcc tcgcgccggg 180
 cggcctcgtc catggactcg tccacctccc acccgccctt ggggaacatc atgccgtgcc 240
 cttctggtga cgtgatcgcc agcaccttca gctcgccgtc gcaccgcacg cggtacggga 300

tgcagccac cagcatgcgc ccgccggtgc tctggctgta

340

<210> 33914

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D6

<400> 33914

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ggtcatggat aaggtagcca agactgttga ctccgaggag ctactgtgg aggagcgaaa 120
cctcctgtct gttgcataca agaacgtcat tggagcccgt cgtgcctcat ggcgcacat 180
ctgtccatc gagcagaatg aggagggccg aggcaatgag gaccgagtta cactcatcaa 240
ggattatcgt ggcaagattg agactgagct gaccaagatc tgtgatggca tcctcaagct 300
gcttgagacc catcttgtgc cgtcttgacac tgcccccgag tccaatgtct tctatctcaa 360
gatgaagggt gattactaca gatacctcgc tgagttcaag ac 402

<210> 33915

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D7

<400> 33915

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cgtcgttctg aaccgagaag gacgacggtc atgtctcttg agggagatgc atgaggctcg 120
ggtaaccccg ctctacaaca tcaagggctt tccttgcttg tcatcgagtc ctttggtttc 180
tccagccaac tgagggccgc aacctctggt caggcgttcc cccagtgtgt ctttgaccat 240
tgggacatga tgggctcaga tcctttggag gccggctccc aggtctctca gctgggtgctg 300
gatatccgca agaggaaggg tctcaaggaa cagatgacct ctctttctga gtttgaggac 360
aagctctaaa atttttggct gttggtgata ctgtttcatc tgccggttta atcatcaatt 420
cgtctactgt aatagcagcg acttcaatat tttattttgg tttagttgtc aaatgca 477

<210> 33916
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D8

 <400> 33916

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 tcgctggctaa ctgcgccaaa ctttgcctaa gtttagttgt ttgaattgaa taactaacct 180
 tagaaagaaa agttaggcaa agtggtgcaa gttatgcac gaaccaacaa ggccctaaat 240
 gttttgaaac tgtatatatg aagcctgttg atggccactt ctaggtagct gggatgatga 300
 atgcattttc aagcacattc tgtttggtgg tgctgccaat gatgcgttcg gctcggccgt 360
 tctgggagaa gtgtacgggc acgagcgacg caactggatg ccatgggtga ggaatgag 418

<210> 33917
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E1

 <400> 33917

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 gggcgtgatg aagtccggcg agcggggcgaa gcagatgcgg ggcgtccggc aggaatctct 120
 gcggttctctg cttctggtca tcgtcgccgg cttcttctc ctcttcctga ccttcgtcgt 180
 tatctacaag cccgattcca tctgtccag cctgaacggc aagctgcccg tggaccatgc 240
 gccgacgtcc atcctgattc atcagaaggt taactcgccc cccgccaccg cacttgagac 300
 cttcaccgac gcactgcgtg gagaccctag agtggtcgat gacgaagccg atttatgacc 360
 acaggggt 368

<210> 33918
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E10

<400> 33918

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tgatgcacga ataagcgtgg ctacgtaatc tatcgtatgt atacgtgtgt gtatgcatgt 120
gcttgtgtat gatcgtggta cgaggaccga aaaaatgtat gcaactctga tttactt 177

<210> 33919

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E12

<400> 33919

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ctgttccacg caaaaccaag actacactga ctattacaag cttactagca tgcattgcata 120
atcattatta taataataat aataaaacta tctcactgat ccactttgct ctacctctat 180
caataatgaa acaactgtat ttaccttcoat tacttaattg tgtatgcttt tactcctact 240
ttccgatttc atcatgtctt taacatctca ttaattcact atatttctat aacaaataat 300
tttattaaag gtcgatcact ctatattatc caatcttact tactcttaca ttcaacgtta 360
tatcttttat ataatttaat ctaaatt 387

<210> 33920

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E2

<400> 33920

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tgtgagaggg aagtttttaa tagccagtag cttcaaattt cctacaaggg ggcagattgt 120
ttctgttaac tcaatctaac tcaaaattcg aaataacact ttggcctaaa ttaatcaagt 180
tttgtgaatc aaccaattcg agcataggtc aagggatcaa gatttaagca aatgtttaat 240
cgtatcgagt tctatatact tattaagcac ttacctcata tatgaagggt ccaccaggta 300
ctcaaagtgg agtggaagga gggccatggt attttttttc cttaaaactt ctttaagtagt 360

gttgcaaact cagggcctct tggctctgga ctaagcacia aagccttaaa ttg 413

<210> 33921

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-E4

<400> 33921

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tgctagtctc tacccccagg cccagcccc ccattcctgc ctcttctctc tctcgccac 120

cgcgccggc cccaatgtcg ccgcccctcg agccccacga ctacatcggc ctctccgccc 180

ncgcgcggc gccnccgacc ccgacctnct cctcgtcgtc ctgcctcctcg ccggcgcccc 240

gcctcacct tcgctcggc ctgccgggct ccgagtcacc cgacc 285

<210> 33922

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-E5

<400> 33922

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cgggatgaag tccggcgagc ggccgaagca gatgcggggc gtcgggcagg aatctcggcg 120

gttcgggctt ctggtcatcg tcgcccgtt ctctcgtc tccctgacct tcgtcgtcat 180

ctccaagccc gattccatcc tgtccagcct gaacggcaag ctgccggtgg accaggcgcc 240

gacgtccatc ctgatccagc agaagggttaa ctgcccccc gccaccgcac ttgagacctn 300

caccgacgca ctgcgtggag accctagagt ggtcgatgac gaagccgatt caag 354

<210> 33923

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E6

<400> 33923

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tgacatgtgg aaaactcctt ggcgttacgc cataactaag tcgcccttgc atgcacattc 180
ctccctttcc gccatgcttg gcgttaatat gcgatagagg cctcgcactc gatctgcca 240
ttccaacaa gtttgcgag ccctgaattg gcgaatggga 280

<210> 33924

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E7

<400> 33924

gttaactcca caaggacagt cgatggtagt ttgattcaca tctcagcccg gttccgttgt 60
gtg 63

<210> 33925

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-E8

<400> 33925

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cgtggtgtcg tccgtcgccg ctttcgccgc cgccgaccac ggccctcacgc acatccacct 120
gtacgtgcac gagacgtaca ccggggcgaa cgccacggcc gccgccgtgc tgcagtcccc 180
gctgggcgcc aactcgtcgt tcgggagcat gggcgtggtg gacgacgaga tacgctggg 240
cccggaccgg tcgtcgagc tcgtcgccg gtaccagggc gtctcttcgg cagcagcgtg 300
cagctgggcg ccggctacct gtcgtccatc acgtggtgt tcaccgncgg cgagtacaac 360
gggagcacc tgtccgtgca ggggccctg ctcgggttca c 401

<210> 33926

<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-D12

<400> 33926

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aagggcattg atcattacat ggaatcctat taagatatta tatgaaagtc gaatttcttc 120
cattctcatt tgagaatgcg aatacaagga ggtattttgt gttcgggaaa gtccgaagaa 180
aaaaggatgtt ggaatctacc ttttcttttg ctttttcctt tataaaaaata actcaatcaa 240
aatccaatta tctactctac aagaatgaaa tgcttggtat gcctaataata cttagttaa 300
cctgtatctg ttttaattct gttctttgtc cgactagctt tttcttcgcc aaattaccgc 360
aagcttatgc cattttcaac ccaatcgtgg atgttatgcc tgcatacct gtactctttt 420
ttctattagc gtttgtttgg caagctgctg taagttt 457

<210> 33927
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-E9

<400> 33927

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catccgagcg aacaagccaa ccgaccccg tcccaaggca atccgccgcc gacgtaccac 120
caccaccgca ggagcgagat ggagatgaag aggatcctct tcgccgtcct cgtcgtcatc 180
gccgcctcgg ccaccgcagt gctggcctcc accgaggccg ccgccgcggg gcccccaact 240
gcctccgagt cgtccgccga ggctcccgtt ggcgctggcg ctggcgctgc cgtggcgccc 300
gccgccgcgg ggccctccgc cagcagcggc gcgccgcccc tcgccgccgc gcccgccgcg 360
ctcctcttct cctcctcgc ctactacct cactaagcgt gtgcgtgcg 409

<210> 33928
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F1

<400> 33928

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ggatggcaggg ctgccagctt taacatcatt cccagcagca ccggtgctgc caaggctgtc 120
ggtaagggttc ttcctgaatt gaatggcaag ctcaactggca tgccttccg gggtcccacc 180
gtggatgtgt cagttgtaga cctcaactgtc agaatcgaga agggggcctc ctacgaggaa 240
atcaagaaag ctattaaggc cgcttctgag ggccactca agggatatcat gggctacgtg 300
gaggaggatc tggtttccac cgacttcacc ggtgacagca ggtcgagcat ctcgacgcc 360
aaagccggga ttgccctgaa cgaccacttc atcaagctcg tctcgtggta cgacaacgag 420
tggggc 426

<210> 33929

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-F11

<400> 33929

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taatggataa aacaaaaaaa ccaaataaa aatgccatt tttcaaatga accaattttt 120
ccgaaaacaa ca 132

<210> 33930

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B6

<400> 33930

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ggcggggcgg gagcctgctt attcacggc gcggtgact gcttcttcga ctacgcggat 120
gcctgctgca gacgcgacgc ggcagcctac cggtcgaacg gatccgccga cgaacggatc 180
tcctgcgct gatacatctt ttgcacggc actaccgatt ggaccgatct ccgttgctg 240

gtatatacct

249

<210> 33931
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B7

<400> 33931

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acaagagaca aagcagggca cggacaatgt ccctcgctc ctcgtcctcc gtcgctgctc 120
ctgctcctgg ccgccgactt cgctatcatg agcgccaaca cgaccacctt caccatcacc 180
aacaactgct gggtcaccgc gtggtccgcg gccaccccg tgggcgccgg cactcagctg 240
aaccggggcg caacgtgtac cgagaacacg ccctacgtca ccagctactg ccccggtgtag 300
tgccgcaccg gcatgctcct taaca 325

<210> 33932
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B8

<400> 33932

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ctgttcgceg tacccttacg acggccatac tatttggtat agcggatctc tattcgaatt 180
gatttcccgt gctttatcaa tctttggctt gcgaactccc tgggtggccg atcttttagtg 240
ccttg gatat acttcgctt ttggcttgct tctttatcgg cgccgaggcc tgatcc 296

<210> 33933
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B9

<400> 33933

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 ggtgaaggcg ttgctgccgg agtcggcggg cggggagctg tcggcgggtg gcccggtggg 120
 ggaccaggtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 180
 agtctgcaac ttcaagtttt ctcgggactg ccacaattct cgtggccagc aagggatgtg 240
 cgtcgtcggg gctatcaaca actacacgga ccagctctac agctacggcc agaagacttc 300
 gtataacctg acggagagcc tgatgttctt ggcacacttc gtcggcgacg tccaccagcc 360
 gctgcacgta ggcttcgaag atgacgaggg cggtaacacc atcaccgtcc actggtaccg 420
 gaggaaagcg aaccttcac acgtgtggga tgtcagca 458

<210> 33934
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-C1

 <400> 33934

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 gcagccgcaa tggcgagcag caccatggcc ctctctcca cggccttcgc cggcaaggcc 120
 gtgaacgtgc cgtcgtcgtc cgccttcggc gagggccgcg tgacgatgcy caagacggcg 180
 gcgaaggcca agccggcggc ggcgtccggg agcccgtggt acggccccga ccgcgtgctg 240
 tacctggggc cactgtccgg cgagccgccg agctacctga cgggagagtt cccgggagac 300
 tacggctggg acaccgccc gctgtcggcg gaccgggaga cgttcgcca gaaccngag 360
 cntgaggtga tccactccg ctgggccatg nctggcgcg tcggctgcgt ctttccc 418

<210> 33935
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-C10

 <400> 33935

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 tcgtactact acaacttctt tatctttcaa cacatcttcc atcccatcca catttcccac 120

atcataactaa tttaccacct caacatcccc tacaatccct ccttttacac c 171

<210> 33936
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C11

<400> 33936

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tttcatgtca catgcaactt gaagcatgcc tacctgcttg gttaaccgcg tgtcagcagc 120
aacgatggag ttcaaggcag tggatcttcc actagattat ttgcaaaaag ggcctttgct 180
gggggttttta agggacaaaa tgcactggga accattcctt tggaaaagct tttcttctct 240
ggtggggaaa atttctgctt ggcctgaagg ctattgccgg ttggccaaag tgtgaaagac 300
tactagaagt gtgctgatag cgtatttact tgc 333

<210> 33937
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C12

<400> 33937

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caccttggac acctgatacg actatgacta ctaccgcgcg tacactgaat tatgtccttc 120
ggattttcaa aggatctctg aggcgcaccc tacaccgagc aatgtgcaga tctatttctt 180
cctctgtacc ctacctttgg ctaaaccgat tcctagaatg acaggacttt aatcataaaa 240
gataactc 248

<210> 33938
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C2

<400> 33938

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 aaaaatacat cacctttgtc acttccaata atgagctatc agttcaaact ttatcataac 180
 tcctatcgat tctcaatata tatgccc aaa tccatgcgag acgctagtga ttataatttc 240
 tacatcttct tactacctag acttgctaca acttacctgc ctctcttcaa agagtttttt 300
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<210> 33939
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C3

<400> 33939

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 tcgcaagttc atgaccaacc gctgctggc ccgcaaaciaa tttgtgcttg aggttatcca 180
 ccccggcgcg gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240
 ggtgaaggac cccaacacca tcttcgtctt caagttccgc acccacttcg gtggaggcaa 300
 gtccactggc ttcggcctca tctacgataa cctcgagtct gccagaagt tcgagcccaa 360
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 agagcggaag aac 433

<210> 33940
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C5

<400> 33940

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 gaaggggccc aaccaggacg ccgtcatact ctgacaggga ttcggcatgg atgacggcct 180

gttctgcggc gtgttcgacg gccacggtcg ttgcgggcag ttcacagca agctggtgag 240
ggactaccta ccgttcatga tctgagcca ccggaacgcg ctcctcatgg gctccgacga 300
ctacgactac gacccggtct tcagcgacgc gtcggcggtcc gcgtcgtcca cggacggcag 360
cgggcattcg tagccggcgc cggctcacct gctggaggag tggcttgag gctgcgcca 420
actcgttcaa ggccatggac aagg 444

<210> 33941

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C6

<400> 33941

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ggccgccgac cgatcgacc cgcttgccct cggcgcgcc aggcgcagca attcaagtgc 120
atcacggttg ctacttccat aacgtgctaa cagtcaaatt tgtcaagcta ctgttgatgc 180
tccagatata gtagaaaacc atgggagaag ttagtgatga taattccaac atgtcctttc 240
taaaaagaat cgcttcaagt ga 262

<210> 33942

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C7

<400> 33942

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tacaactacg gcgacttcat ccccggtgctc cgcccttcc tccgcggtta cctcaaccgc 120
tgccacgacc tcaagacgcg ccgcatgaag gtcttcgagg acaacttcgt acaggagcgc 180
aagaagggtga tggctcagac tggtgagatc cggtgcgcca tggatcacat cctcgaggcc 240
gagaggaagg gcgagatcaa ccacgacaac gtcctctaca tcgtcgagaa catcaacgtc 300
gcagcgatcg agacgacgct gtggtcgatc gagtggggca tcgccgagct ggtgaaccac 360
ccggccatcc agcacaagct ccgggaggag ctgcctcgg tgctgggcgc cggcgtgcct 420

gtgacggagc cggacctcga gcg

443

<210> 33943

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-C8

<400> 33943

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aacgcgagaa ctgctattat gcatgcagca gccgtaagca ttgctactag ggtttcatgc 120

ggggcggaagc aattgggtcta tgccgcctga acgcacggcg gaatctgtta ggcctacccg 180

agctgcgtac gacggcagat aaggcagacg tcgtcacggc aatgccggat atgcttgctg 240

cggacccagc ttttccagcg ccattcacgc caaccaattg ggtccacaga cagctcgtct 300

gttcagggtg ctggaacttt ctcatgttgc cagattgtg 339

<210> 33944

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-C9

<400> 33944

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gctgccggcg ccggcgcgca gcagggcgtg tggagcatca tcacccggcc catgttccag 120

agcatgctga gccaccgcgg cgacagcggg tgccagggcg ccttctacac ctacgacgcc 180

ttcatcgagg ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc 240

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actgctccgg atggaccgtt tgcttgggga tactgccggg tgaaggaaca gaaacagacg 360

gacccaccct actatggacg aggaccata cagctaactc ataagtataa ctacaggctc 420

ngccggcaag cgctgaacct gaacctggtg ggc 453

<210> 33945

<211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D1

 <400> 33945

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 tgccagaggc cgaggaccgg ctcggtgtct ccgaggacgc cggcctactc cagggccttg 180
 cgccggggcgg gctactgcat ggactcgtac acctcccacc gcgccttggt gaacatcatg 240
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 tactggatgc agcccaccac gatgcgcccg ccggtgctct ggctgtacca ctgcagctcg 360
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 tcgttctcgt tgctatagcg g 441

<210> 33946
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-D10

 <400> 33946

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 gccgatgaca aggcgcgtcat ccccgcgacc gaccgcgcgc cgcgcgcgtc gccggccgac 180
 gactccaagg ccctggccat cgtcgagaaa gttgcagatg aacctgctcc cgagaagcct 240
 gcccttgcca agcaaggggg ctccaatgac agggatctcg ctcttgcaag ggtggaaaca 300
 gagaagagga actctttgat caaagcttga gaagagaatg agaagacaaa agctgagaac 360
 aaggctgcta agaaagtatc cgctattctt tcatgggaaa acacaaagaa agcaaacata 420
 gaagctgaac tgaagaagat tgaggaacaa ctggaaa 457

<210> 33947
 <211> 321
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B5

<400> 33947

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ttggctggca tgagcgccaa cgccgtcacc ttcaccatca ccaacaactg cgggttcacc 180

gtgtggcccg cggccacccc ggttggcggg ggcacgcagc tgaaccggg cgggacatgg 240

accgtcaacg tgccggccgg caccagctcc tgccgcgtgt ggggccgcac cggctgcttc 300

ttcaacggca acaacgggag c 321

<210> 33948

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H1

<400> 33948

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tgtgacaggc ctctatggcg cgaacgcact atacatcttc ctggctggct gcaagcagac 120

tcccgtcttt ctaagctcca ttggtactct aaatcattaa ttcctcata 169

<210> 33949

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-H4

<400> 33949

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agctcgttgt gcttgctctg cttttcgtga tcgccggtgt ggcgcatggc gcgggggagt 120

gcgggagagc ctccgccgac aggggtggcg taaggatggc gccatgcac tcggctgccg 180

acgacccgca gtccacgccg accagcagct gctgctccgc tgtgcacacc atcgggcaga 240

gccccagctg cctgtgcgcc gtcattgtgt ccggcaccgt cagggtgcc gggatcaagc 300

cgagaggtcgc cattaccatc cccaagcgct gcaacatggc cgaccgnccc gtcggctaca 360
 agtgcggaga ttacacgctg ccctagctga tgaagacgtc gtcaacgaga ccgtgcgagt 420
 caagtgcattg aacgaatgcc attatgccat gcaactatg 459

<210> 33950
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-H7
 <400> 33950

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 acgcccacac cgcagccccc gatgtcgtcg cagcgcgccg gccgtcacca gcgcccgcgcg 120
 tcgcagagcg tgttcgtgct ccagagaaac ctggcctccc tcgacgtcga cgcggcggcc 180
 gacgcggggc ccaaggccgg cgggccagaa ggcgcggcg ccggcgccga gcagcaggcg 240
 aggcgcggcg cggggcgctc ccaccgccgc gccatgtccg tggccgcggc cgtggcctcc 300
 agggagcttg agctgatcaa ggaggacctc ggcagctaca actacaaggt cggcgccctga 360
 gagagagaga gagagaggag ccggcacgct gcgtcatgtg tatagagctt gtgggttaac 420
 cgtaccacga gctggctttg atcgacgatt aacagtggct ta 462

<210> 33951
 <211> 247
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-H8
 <400> 33951

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 tcctgggacc gagttgcgt atgcgatgaa actcggctgc tgtcatctcg cgaacaataa 180
 tgtagcgcgg cggctatggg tcttagccgc acatgcagca gtgcgtgcgt tatacatcgc 240
 cagacgg 247

<210> 33952
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H9

<400> 33952

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ggatgttgag taccgctgct tccacggcgg actgcactga accacagacg accactccct 120
acacaacgcc ttcagcacct acggcgaagt cctcgagttc aagatcatcc tcgatcggga 180
gacgcagaag ctccacggct actgcttcac caccttctcc acggaggacg cgatgcagaa 240
cgccatcaag ggcataaaca gcgaggaact ggacagacgc aacatcaccc tcaactaggc 300
ccagtcccca tgaagccgcg gatgcagacg cagctgcagg tactgctgta gccgatg 357

<210> 33953
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-015-Q1-K1-A1

<400> 33953

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ggtggaggag acgcgcgagc aggtctgtcc ggcgcgggtc gagccgtgcc tgtcctcggt 120
cgtggacatg tcggagatct tccccgccag cgtcacgctc agcagcggcg gcgacgtgga 180
caatagcggc aacaagccag acgaggaaac ggccccgcga ccgcagctgt tggccacgac 240
ggcgctggtg ccggtgacgg aaaagaaggc cggctacgac gtggcccacc ccgaccgcgg 300
cacggtgac tcgcgctaca aggagaagcg gangaacagg atgttgagcg ggcgagccgg 360
agtagtggtg gctccgatcg acaccacagt c 391

<210> 33954
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A10

<400> 33954

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gagacaaatc cactattgggt ttacgtcaa gcaatacgta gagtaactcc caatatagga 120

gtaaaaacaa gacgtaataa aaaaggatcg acgcggaaag ttccgattga aataggatct 180

aaacaaggaa gagcacttgc cattcggttg ttattagaag catcccaaaa gcgtccgggt 240

cgaaatatgg ctttcaaatt aagttccgaa ttagtagatg ctgccaaagg gagtgggggt 300

gccatacgca aaaaggaagc gactcataga atggcagagg caaatagagc tcttgacat 360

tttcgttaat ccatgaacag aatctaggta tgtagacaca tggatccata catctcgatc 420

ggaaaagaat caatagaagg agaatcggac gatatc 456

<210> 33955

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A11

<400> 33955

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gtgacaaatc cactattgggt ttcacgatca gcaatacgta tagtaactcc caatttatga 120

atctaataca gacgtaatag caaacatcg actcccaaag ttccgactga cataggacct 180

aaacatggaa gagcacttgc cattcgtaaa ctattaaaat cataccaaaa ccgtccaggt 240

cgaaatatgg ctttcaaatt aact 264

<210> 33956

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A12

<400> 33956

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attagctcta ggctctagct agccgcgcca ctcttcgtg tagccatcag ccttctcctc 120

gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180

cgtggtggag accccgcgcg cgcccgctgt gcccgaggag tctgcccccg ccgaggccga 240
 ggccgaggcc gaggtgtgtg ctctgtgtga tcccaggagg cttcccgcgg ccgagcagca 300
 ggcagccgcc gagggcggagg ccgcggctcc tgctggtgcc gaggagcccc tcgcggccga 360
 accggccgcc gagggcggagg ctgtgtgtcc tgctggtccc gaggagactc ctgcggtcga 420
 gc 422

<210> 33957
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A2

<400> 33957

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 ggggtggggag acgcgcgagc aggtgtgtcc ggcgccggtc gagccgtgcc tgtcctcggt 120
 cgtggacatg tcgtagatct tccccgccag cgttattctc agctgcggcg gcgacttga 180
 caatagcggc aacaagccag actaggaaac ggtcccgcga ccgcagctgt tggctcacga 240
 ctgtgtgtgt gccg 254

<210> 33958
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-A7

<400> 33958

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 agcgacgacg gtgagagaga aagtggaggc ggcggatgaa ccgtcgaaga cagtatgctg 180
 tcaacgacga cagtgacaag cagctgatgc gggagatcct gtccttcacc ggtgggatgc 240
 cgcaatggca gatggccgca cccgaggaac acgacgtcga cggcggaagg gagcagcgag 300
 gtgcgttcga aggagcaggt ccacaccatc gtccaattga cgtcgacgaa tcagatccac 360
 ttgttgcttc cgtgttcctt tgcaacgacg acctatctgc aacaatggag ctgcgcgcca 420

ataggaatgg atacttttcg aggatgatgg atgacaat

458

<210> 33959

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B12

<400> 33959

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catctccaga gcatgtcata gttgctgagt ctatttgcaa gattttgagg acgttttatc 120

gtgttattga agtcatttct gcctctagtt ctccgacagc aaacatgtac ttcaatgaga 180

tatggaaagt gagaacagtc ttgcaagaag aagcatcaag tgagcatgca gaaatcactg 240

cgatggtcgc agagatgcag gaaacattca atgagtactg gcaacattca tacttatggc 300

tatgcatacc tgttatccta gaccctagat tcaagttcgg tttcattgag ttccgtctga 360

aacgagcttt tggattaaaa tcagcaagct acttatctgg catacgtgaa acactccagg 420

aactcttcaa tgaatactgc agtccagtgg atc 453

<210> 33960

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B2

<400> 33960

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agatcacgtc gatggacatc ttctgatgac tcttatggta gtcagggata tgggtgctaaa 120

agatcaactg atagtttcaa taacagcagc ttcggcaacc aggccggtgg tggttcaagc 180

tttcaactga gcttcataa cagctccagt ggcaatcagt tcggtggtac taccagcttt 240

catggcagct atggtaacag cagccagaac aatcagacag gtgacaatcc gagctttcca 300

cccagcttca gtaacattca gtccggggat ggtctcaggt ttcaatgaaa gttctattga 360

tcacgccgaa aggaccagag ccgatcaaac cat 393

<210> 33961

<211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-015-Q1-K1-B3

 <400> 33961

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gagcaccaac aatggccgcc gcctcctcgt cctcggtcct cctgctgctc ctggccgccg 120
ccttggtggtg catgagcgcc aacgccgcca ccttcacat caccaacaac tgcgggttca 180
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ggaccgtcaa cgtgccggcc ggcaccagct ccggcccgct gtggggccgc accggtgct 300
ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360
cgctgtctgg gcagccgncg ctgacgtgg ccgagttcac catcggcggc agccaggact 420
tctacgacat ctcggtcatc gat 443
  
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<210> 33962
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-B4

 <400> 33962

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ggcgcggcag cctgcttctt caccggcgcg gcggcctgct tcttcgacga cgcggaggcc 120
tgcggcggac gcgacgggc agcctaccg gcgaacggat ccgcgacga acggatctcc 180
ggcgctgat agatcttcgg cgcgcggcct accgggtgga cggatctccg gtgcctggta 240
tatcctcggc gtcgcggtt gcttcttcac cggcgccgcg gcctgattct ttgacggcac 300
ggcggcctgc cgggtctctc caggcgggca gatg 334
  
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<210> 33963
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-G8

<400> 33963

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caagttgaac acgcgatecc attcccatto tcttgcctaa tacaacctcc ggtccagca 120
agccgcagcg ccaagcctag aagcggagcg cggaacacac gaggccagga agaggaggtg 180
ctgccgtccc cgcgcgcgcc ctgtgggagt gcggggaatg gggcggcacg gctgtggacca 240
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cgtgtggccg ggcgcgccagg ccggccatac aagcgagtac cggcgccaac tcggctccgc 360
catcgacatg cactcgacg ccgatgtctt ccgccctccc ccgggctaca atgcgccga 420
gcaggttcac atcacacaag gcaatcatga tggcac 456

<210> 33964

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E3

<400> 33964

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tggctgctcc agacaaattc atttggcctt gcaaatgaca acgagctgca cgtagttaca 120
aggcttgggt gtggagctgt ggcgggaacc attggccaga ctgttgcata cccgcttgat 180
gtcatcagga gaagaatgca gatggttggc tggagccatg ctgactctat tgttactggg 240
caaagcaaag aagcactcca gtacaatggc atgatcgatg cattcaggaa gactgttcgt 300
catgaaggag ttggtgctct gtacaagggt cttgtgccga actcagtcaa ggtggtgccc 360
tcaattgcca ttgcatttgt gactta 386

<210> 33965

<211> 515

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-014-Q1-K1-E4

<400> 33965

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ncggtccttc cgnngatttt caagggggcc tgcggtggg ccgcatccgt gatcactcgt 180
cgcgaaaatg ttgcggtgct ttcttcnctg gccgtctgga acccttacct tccggcttga 240
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nngcgtgatc gcgctatctt gccgggtttt ccccggtcc ctagggaat cggctttacc 480
catgttgcaa gttgccgttc acatgggaac ctttc 515

<210> 33966
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-014-Q1-K1-E5
<400> 33966

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aagaggagga ggtggaagac gcgcgggggc gagagcggga ggctgcccgc agggccactt 420
tttgagcg 428

<210> 33967
<211> 162
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-014-Q1-K1-E7
<400> 33967

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gctgtacacg catctacgct tacgaagcgc tgattgcgaa ggcttacgtc taggatatgc 120
gcacggagct cgaattctct ggccaggacc ttacagcgac gt 162

<210> 33968

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E8

<400> 33968

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taatcatcgt aataataata ataaaacgac ggggctgagc cactttgttc gacctgtatg 180
aataatgaaa caactgtatg ttccctcggc acgtaattgt gtatgcttgt gcttgtactt 240
tccgtttgca gcatgggttt aacatcgagc aaatcaagaa atttcgagaa c 291

<210> 33969

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F11

<400> 33969

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agtacatgca gccagaaaag atgatgacat gccaccaatt gaagccattc ttgcaccact 180
tgaagctgag ctaaagcttt ctcgccagga gattgcaa atccaggatg acaacagagc 240
tttggatcgt ctaacaaaac aaaaggaggc agctctgcta gaagcagaga ggactgtgca 300
aattgctatg gcaaaagctg ctatggttga cgatttgcaa aacatgaacc aagagttgat 360
caagcaaatt gagatctgcc atgaagaaaa taaaatctta gataagctgc atcgccaaaa 420
gattgcagaa gttgaaaagc ttaccaaac tgtg 454

<210> 33970

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F12

 <400> 33970

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 acgcatacac ttgtaccac actaagggtc cagagcctct cttactacac gagaaataac 180
 caaaatttcc ttaaaagtaa cgatttttaa ctctcaccat tgaactacca ctcatcttac 240
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<210> 33971
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F2

 <400> 33971

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 caccttacc acatgaaacc accatcacia atcagagatt gctgctacgc tcttctttcg 180
 cctacaatct gccaaagaaa acgtatgatt ccctgtaaac cgacatccct attagctcac 240
 ccacatcact caatcaagaa ctgacttggt taccggcaac atgcaaatca taagccgaac 300
 actcctaact gcgtcttgcc c 321

<210> 33972
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F6

 <400> 33972

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gattttgtgt ttgggaaagt ccgaagaaaa aaggatttgg aatctacctt ttcttttgct 120
 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctgt tctttgtccg 240
 actagctttt tcttcgccaa attaccgaa gcttatgcc a ttttcaaccc aatcgtggat 300
 gttatgcctg tcatacctgt actctttttt ctattagcgt ttgtttggca agctgctgta 360
 agttttcgat gaaatcttta ctattctgcc tgccaaattg aatgatgtat tcattccaaa 420
 aa 422

<210> 33973
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F7

<400> 33973

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 ttttccctta taaaaataac tcaatcaaaa tccaattatc tactctacaa gaatgaaatg 180
 cttgttatgc ctaatatact tagtttaacc tgtatctggt ttaattctga tctttgtccg 240
 actagctttt tcttcgccaa attaccgaa gcttatgcc a ttttcaaccc aatcgtggat 300
 gttatgcctg tcatacctgt actctttttt ctattaacgt ttggttggca agctgctgta 360
 agttttctat gaaatctcta ctattctgcc tgccaaactt gaatgatgca ttattccca 420
 aa 422

<210> 33974
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F8

<400> 33974

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 aatcttccat gcaacgcata tgctccgttt cagccctacc tacctaaaaa cctaccccc 240
 ccaactcaaaa cagaacctac tccaaaaccc gcggcattcc aaacataatc ccctctcccc 300
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<210> 33975

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-F9

<400> 33975

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 gagtacatgc agcccagaaa gatgatgaca tgccaccaat tgaagccatt cttgcaccac 180
 ttgaagctga gctaaagctt tctcgccagg agattgcaaa tctccaggat gacaacagag 240
 ctttgatcgc tctaacaaaa caaaaggagg cagctctgct agaagcagag aggactgtgc 300
 aaattgctat ggcaaaagct gctatggttg acgatttgca taacaagaac caagagttga 360
 tcaagcaaat tgagatctgc catgaagaaa ataaaatctt agataagctg catcgccaaa 420
 agattgcaga agtgaaaagc tt 442

<210> 33976

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G11

<400> 33976

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 tgaagcgaag ctgttactaa actggccgat gatgccagct atgaggtaca cagctaccat 180
 caaatcttac ttaccaagac ccacaaacta tatgacgagt acgccacgaa tgtggcaaat 240
 ctgctctttc atgaaactga tgagaaaagg acgtacaaag ttgaagagct gtagacgctc 300

gataactcgc actacgacta ccacaagatt aagctgcgga tgcaaaccga aatgcagggc 360
 tt 362

<210> 33977
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-G12
 <400> 33977

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 attcatcgag aggtttcaga tattctatatt caaccttaag aactttttata tttccaaagg 180
 cctaaccacac ccttaaaaat tcaatggagg aattgaccat aatggatcct tccccccaga 240
 ctaaccagga cccacagttt ttactggacc aacc 274

<210> 33978
 <211> 206
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-G2
 <400> 33978

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 gccctgcatt ataagcctgt actgagtgcc ctgtttgttt aagggttcagg gtttaggaat 120
 ttgtgttcac tcttactcac tttggatttg cgggtggtatt tgtttgcttg agttatattg 180
 aggtaaaattt aaacgttcat gatttc 206

<210> 33979
 <211> 84
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-G6
 <400> 33979

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acaaaaaaaa caaaaagaaa atct

84

<210> 33980

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G7

<400> 33980

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gctggccctg gtgggtgggtg ccgtgagcct ggccgtggag atccaggccg acgccgggta 120

cggttacggc ggcgggtaca ccccgacgcc gacgccggcc accccgaccc cgaagcccga 180

gaagcccccc accaaggggc cgaagccgga caagccggcc aaggagcaca agccgcccga 240

ggagcacggg cccaagccgg agaagccgcc caaggagcac aagtccgacg ccgccacgta 300

caccccgagc cccaaaccca cgccgtcgac gtacactccc accccgacgc cccccaagcc 360

gacgccaccc acatacactt cccgccctac gccccacaaa cccacaccaa aaccactcc 420

cactccttcg acgtacacct cgacccccaa gccttcgac 459

<210> 33981

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-E12

<400> 33981

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gtgtgatgca cgaataagcg tggctacgta atctatcgta tgtatacgtg tgtgtatgca 120

tgtgcttggt tatgatcgtg gtacgaggac cgaaaaaatg tatgcaactc tgatttactt 180

<210> 33982

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C4

<400> 33982

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aatattggtag attactattg ttccatgttg tcttccacaa catactggac tggttcagcg 180
gctagtttcc tattcaacca ttctgtaatg aacgaggtat tggatatttag gt 232

<210> 33983
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-014-Q1-K1-C5
<400> 33983

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ggcggcggag gaggaggagg agacgtccgg tgccgtccca acggaggagg aggagtcgta 120
tccgaaaaga gatgaggccg acggcaaacc gtctgcagag gcagagacga cgacgagcaa 180
ggccgtgtgc aacacggacg gcccctgtgc cgagacgtgc gacctggacg gcgacgtccg 240
cacgaacggc agcgccctat cggtgacgtt cgtcccggcg agcccgtcgg agcggcggga 300
gtggaaggtc cggccgtact cgcgccggac catggtgggc gtcgacaggg tcacctgac 360
gcggctgggg tccccgatg acccggc 387

<210> 33984
<211> 437
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-014-Q1-K1-C6
<400> 33984

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ggcctcagca tctcagatt ctactggggc aggttcccct tcggggagaa cctcggcagg 180
cagggcgact gggccgcgct catgtgcgcc atctgtaca acgaccgcc cgagccaccg 240
accaccggct cgcgcgagtt caggggggttc atcgctgct gcctgcagaa gaaccgggcc 300
aagcgctca cggccgcgca gctgctgcag cacccttcg tcgccggccc gcaccgcag 360

ccccctcgctg ctctctncccc gtcataacca caccaccatt tcggcggggtt gggagttggg 420
accaaagtac ggatctc 437

<210> 33985
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C7

<400> 33985

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gctcgccctt gcagcagcag cagcagcgcc gctgcccgcc tctctctctt gctcgccgcc 120
gtcgcagcgg cgctccaggc cgcggggcgcc gcgccgccgg tggccagcgg ctcatccgc 180
aaatcctgcc gcgcgacgca gtaccctgctg gtgtgcgagc agagcctcgc ggcgtacgga 240
ggctccccgc cgccgcggag cccgcgggag ctggcgcacg ccgcgctggc ggtgagcgcg 300
gaccgcgctc gggcagcgtc cgcgtacgtc ggccgcctgt gcggctcccg gtccggatcc 360
ggcgacggca gccccgccg cggcgccggc gcgaagaagg ggtc 404

<210> 33986
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C8

<400> 33986

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gtcgcaacga cgctacaggc cgcggggcgcc gcgccgacgg tggccaacgg ctacatccgc 180
aaatcctgcc gcgcgacgca gtaccctgctg gactacgagc agagcctcgc ggcatacggga 240
ggctaccgcg cgccgcgata gcccgcaaga gctggcgcac gccgcgctgg cagcgagcgc 300
agaccgagct cgggcagcgt ccgcgtacga cggacgcctg tgcggattcc ggtccggatc 360
cggcgacggg agccccgcc gaggcgcc 388

<210> 33987
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D1

<400> 33987

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cggacaacct ggtgtcgcgc gccgccgtcg ccatgaacct ctactatgcc gccaatggca  180
ggcacccctt gaactgctac ttcaacaact cggcgctcgt ggtgcagtc gatcccagct  240
atggatcctg cacctactac tgatgtctgt ctgatgctct gctgtgctgt gttgtgtcta  300
gagatgacaa tggggatata cctagttgcg tcctagtaga agtgtctctt gttccatcca  360
gttgatatgc atgataacat ttggagatgc gtgcatgtga tttttt                    405
  
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<210> 33988
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D2

<400> 33988

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ccggacaacc tgggtgtcgc cgccgtcgtc gccatgaacc tctactatgc cgccaatggc  180
aggcacccctt ggaactgcta cttcaacaac tcggcgctcg tgggtgcagtc cgatcccagc  240
tatggatcct gcacctacta ctgatgtctg tctgatgctc tgctgtgctg tgttgtgtct  300
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<210> 33989
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D3

<400> 33989

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 ctgcttttga gaacctacta aacgtaacat aagatgttgg ctcccggctg ttcttgata 180
 tttctgagca tctggagttg tctagcctgc caagctctaa tgggtgtattg aaatatcttg 240
 ctggaaagac attaccgtca catgcagcta tactgtgtgg tttagtaaag aatcagggtg 300
 actctgatct ggacgttgct tttgccattt ccgaagatgc agctgtatat aaagcattat 360
 cacaaactat tgagctattg gaaggccaca cttctctgat c 401

<210> 33990
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-D4
 <400> 33990

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 ctgcttttga gaacctacta aacgtaacat aagatgttgg ctcccagctg ttcttgata 180
 tttctgagca tctcgagttg tctatcctgc caagctctaa tgggtgtatcg aaatatcttg 240
 ctggaaagac attaccgtca catgcagcta tactgtgtgg tttagtaaag aatcatgtgt 300
 actctgatct ggacgttgct ttagccattt ccgaatatgc agctttatat caagcattat 360
 cacaaactat tgagctatcg taaggccaca atttcttgat catccagcac tattatcggt 420
 gcctttt 427

<210> 33991
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-D5
 <400> 33991

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aaaaaaaaaa aaaaaaaatg ggcgtccttt ttaaagggtc catttttact tccccttgat 180
 ttcaatttaa attttttttt tttgtgtccc ttaaataaat taccttgtcc ccctttttca 240
 aactttttaa ttggaaaacc cctttttttc cctacttaaa tcccttttaa aaaattcccc 300
 tttttcccat tttgattatt accaaaaagt cccccaccat tcgcctttcc aaaaatttgc 360
 cccacctaatt ttttaaattg taccccc 388

<210> 33992
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D6

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 gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgcgggcagg tgagctccgc 180
 catcgcgccc tgcctctcct acgccgcgag caggggggtc gggccctccg cgtcctgctg 240
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 caactgcctc aagaacgccg ccaggggcgt cagcggcctc aacgccggca acgccgtcag 360
 catccccctc aagtgcggcg tcagcatccc ctacaccatc agcaccttca ccgactgctc 420
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<210> 33993
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D7

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 tctagcacat ccacgagaaa taataagtga agtgcttaaa gcactgcaag aactgaatgt 180
 ttactggaaa aagattggac actacaacat gaaatgcaga tggagtcctg gctgccttga 240

gagtatgatg cataactgtg atggctatag tgcagagtct gctataattg aaactgatga 300
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<210> 33994
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D8

<400> 33994

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gcggttgccg cggcgcacgt ggcagacgta gaggtggagg aagagggcga ggccgagcac 180
ggacacgaac gcggcgacct aggtggtgac gagccgcgcg ttgtggctta tccccgtcgc 240
cgaccgggtg cgtgcgccgc tgccgaacca cgcggacccc gggtcgctcg ccttcacgt 300
cgtcgtcgac atgggtctctg tcgtctcgtg tctgactgtc ctagctccga caggtctagc 360
tgctcggcgt gtcgcagcag gtactacgta cggtagcagc caagttgctc ggggtgggttt 420
ggtggtgaat gagaagtgag aagcgacaac 450

<210> 33995
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-D9

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gcgaaggatg agcgaagaga catcaagagc cagctcgcag actaccctac tactgataac 180
gctcctgctg ttgatgagct gaccacacct atcatggtgc aatacagaca ctcgtatatt 240
catccagccc caagctacaa gaaacgctac gaaaaacat gatctttata tcaactcact 300
gctcatgctt atcggggagtg caacttaca gctgattcga agaccg 346

<210> 33996
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C2

<400> 33996

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catcacggat ttggaaacat tctgccttat caataatgtc cagtggccgt tatctcttgt 180
aatttcaagg aaggctttga caaaatacca atttgatctt tctcctattg ttccactgca 240
agcatgttaa tcgtcatctt tattcaacat ggccaatata acatgcattc cggctcgaca 300
tgattcttag tacaccaatt ctgtcgacat tcaattctat agtctataca tgctccagtt 360
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<210> 33997
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H3

<400> 33997

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ataataaatt ggtgtcatga agtgg 85

<210> 33998
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H6

<400> 33998

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tcggaaggga tactggcagt tcaacatggg tgatgtcctg gttgatggaa agtccactgg 120
gttttgtgcc ggtggctgtg cagccatcgc agattctgga acttccttgc ttgctggccc 180
cacagccata attactgaaa tcaatgaaaa gattggtgct gctggtgtag tcagccaaga 240

gtgcaagact gttgtttctc aatatggaca gcagatccta gatcttttgc tagctgagac 300
acaaccagcg aagatctgtt ctcagggttg tctgtgcact tttgatggca cccatgggtg 360
cagcgctgga attcggagcg tagtggatga tgaagctggg aaatcaaag gtggtctc 418

<210> 33999
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H7

<400> 33999

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aaacacaaag catgatggaa taacggcatg aacactataa 100

<210> 34000
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H9

<400> 34000

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aggctatccc atatcaggac agacaagaag accgctacaa taagagtcct caacttcttg 120
aatacaaccc agtatacaag aaaactccac tgcttgtcca taatggaaaa cccttatgtc 180
agtccatgct tattgttgaa tacattgatg acatttggtc acataattca ttacttcctg 240
ctgatcccta ctagagaact ctggcaaagt tttagggttaa atatgctgat gatgacatgt 300
tttctgcaag tattgcattc ttccttaaca ataatgaata agagcgagaa aagagcatac 360
agaagatatg gcagcatctc aaggttggtg agaatcaacg atttggtgat 410

<210> 34001
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A1

<400> 34001

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 ccttttatta atctaaacct taattaaatt aaaataaacc ataaaattac actaaaaaat 180
 actcctctaa cttttttact tccacaattt ttttttcttc cttctaattt 230

<210> 34002

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A10

<400> 34002

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 tggcaattat gatcctggca atggaattgc agaagataga tctgagggtca atggatctac 180
 tcaaataaag cctccaaaat ttcaaaaggg tgtattacgt acaaactgta tagattgttt 240
 ggatcgacaa aatgttgctc aatatgccta tggcctagct gctctaggat accagttaca 300
 tgcacttggg tctgtagaat ctccagaagt tcatttagac tcccctttgt ctcgacattt 360
 gatgcatttt tatgaacgga tgggtgacac acttgcttta cagtatgggt gttctgctgc 420
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<210> 34003

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-A12

<400> 34003

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 tggatcatggg cgtcttcgcc gctttggcta aagaaaatgc cctgggttgag agcaaggcca 180
 tcgacatcaa cccggggcag ctcaagtgtt gcaccaactg caacttctcc ttctcggggc 240
 tctacacctg cgacgacgtc aaaaaggact ggcaccccggt ctgcaagaag tgcgtcgtcg 300

cctgtcacgc ctcctactcg ggcaacaaca agttcatgtg caccgacacc ttctcggca 360
 tgtgcggccc caagtgcctag atcagagagg aagaacgcgc gcttgtgcta gctgctatag 420
 cttcgatctt ccggcgctcg ccggtgca 448

<210> 34004
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-A4
 <400> 34004

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 cgctgagcgc gtcacgcgggt gcatggagcg caaggtggtg ccgggctgct tctgtgcgg 120
 gaaaaaggac aaggccgagg gcgtcgccgc catggcgctc tgcgtcaagc aggagcacgc 180
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<210> 34005
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 <212> DNA
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 <223> Clone ID: LIB3068-014-Q1-K1-A8
 <400> 34005

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 catctgacat tattttacat gcccacatg ttacattaga ttgtcactta aaagccttta 180
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 aatttcatta 250

<210> 34006
 <211> 187
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-014-Q1-K1-A9

<400> 34006
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 ggctctgacg gttgggctcg ggggtcccgg acccgaaccc gtcagctgct ggcggaatgc 120
 tcgagctgct cgcgcgggca gagcggggccg tcgagtgccg gccgggggac ggaccgggaa 180
 cgggccc 187

<210> 34007
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B10

<400> 34007
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 caccgcgagc tctcgagaca ggaaccggag gaacgaggat ggaggatgac tcgccgctga 180
 cgaagacgat gaaggggtgcg gtgacaggac tcgccgcggg gaccatctgg ggcaccgtcg 240
 tcgccacctg gtacgacgtg ccccggtgtg agcgccacgt cgcgctccct ggccttatcc 300
 ggacgctcaa gatgtgcggc acctacgggg ccaccttcgc caccatcggg ggcctctaca 360
 tcggcgctga gcagctcgtg cagagccagc gcaagaagcg cgacttcgtc aacg 414

<210> 34008
 <211> 462
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaacccgg ggcagctcaa 180
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240

ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cagcctcct actcgggcaa 300
 caacaagttc aggtgcaccg acaccttcct cggcatgtgc ggccccaagt gctagatcag 360
 agaggaagaa cgcgcgctgc tgctagctgc tatagcttcg ttcttcgnc gncggccggt 420
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<210> 34009

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B6

<400> 34009

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 ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240
 ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cagcctcct actcgggcaa 300
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 agaggaag 368

<210> 34010

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G7

<400> 34010

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 gactcatatc aaaagcagac agacattcat gagattcaat gtcacaatga tcaacttcac 120
 atacatgaac agaaacatga acacaagatg gatcatttag ccaaataacc actactacac 180
 taccataatt tctaaaacag agcttcaaac aacacagaac acaatgatgc atccaaagct 240
 caacacacaa actcaaccaa tatttagatt ctcaataata aagccctaca tatatccaag 300
 gaattcacc ccaatcattat ggctatcaac gatgcaaaca ttatggaaac acagtaacga 360

<210> 34011
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B8

<400> 34011

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 tttaactaaa gaaaatgcc atgaatgaaa acaaagacat caacatcaga cccgtcgc 180
 ctcaagtgct gcaccaactg caacttctcc atctcgtagc tctacacctg cgacgacgtc 240
 aaaaaggact gccacc 256

<210> 34012
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C1

<400> 34012

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 cacggggtttg gaaacattct gccttagcaa taagggtccag tggccgttat ctcttgtaat 180
 ttcaaggaag gctttgacaa aataccaatt gatctttcgc ctattgttcc actgcaagca 240
 tgttagtcgc cagctgtgtg cagcatggca aatacaacaa gcattccggt ctgtcaagat 300
 tctagggaca ccaattctgc ggtcatcaat tctttgtcgt agcatgctca agtttgtaaa 360
 tagccttttg cattatctaa catttg 386

<210> 34013
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-C10

<400> 34013

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taagaggcca ctgctaccct actacgtacc ctctcttttg tgtgctgcca tccgtccccg 180

ttagacgata gaggagagaa taacgcagag ctctctgtct ccggcctgtc ttctgccgtc 240

ccggccggtt aatttactag tgtgttcgtc ctatatgttt agcagcagca ggtgtattgt 300

gcgggtatgt aatggtattg caactatatt ggggtgtaaaa ccataataaa tgtgggcaaa 360

tatgcaagg 369

<210> 34014

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F12

<400> 34014

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tcacctatat atggaagtgc taatggtaat ggggtgagaaa tggagaagta tggagttgga 120

aacttgggtg cgaatgaaat ctgtagtgaa agaagtgttt gtgctctagt catttccaac 180

gcaccatttt ttaccaattc gtgggcctta taaagagtgg gaaaaatggc tgattagcat 240

caatttattc tatactgtaa ttatgataat attacttcat cacaatactg tagatttttt 300

tttatcgaac gcagaagagt tgcgtatcat tatactaaaa agaaaaaagg tctaaaacag 360

accgatacaa accgccgaag cggtaaaaaga acgaaaataa aagagggtta caagacatca 420

gagagaaccc g 431

<210> 34015

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F3

<400> 34015

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ctgtgaatac gctgacgcta cgagaagtca tcacggaagg ggtctcgaag caaggtgcaa 120
agactcacct gccgtctctg atgggctttg ctggctgggt atccatgctg ctcttcctcc 180
tggtcgccgg tgctgtagca aatgaccaga tcttcaccac ttcaggtgtg ccatttgggc 240
ggagttcgcg tgagccaagt taccgcgtcg aattccatcc tgttgattca ccattccatc 300
cagagaatgg tcaagaatcg gtaccaatgg ctagtcatga tgggaaacgt tataaatgct 360
ttctaccagt tgaagaaact aaaacatga agtcaatgct tccgaaaat gcaactaatg 420
gtataat 427

<210> 34016
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F4

<400> 34016

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atcaactggg actgttatat aactcactc tgccagaaat catcaccgaa cttctctcca 120
atcaacgtcc aaatactcac cttccttctc taatccacta tgctgactct atattcattc 180
ttcatcttcc tcttgatcac caacgtgta tcacatgacc agatctctac cacttcaact 240
actccatctt aacgcattcc tttaaaacca acctatcatt tcaaattcca tac 293

<210> 34017
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-013-Q1-K1-F5

<400> 34017

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ccccactccg atcgaatcga tggccgccga gggcgagaag aagatgataa ccctcaaaag 120
ctccgatggc gaggagtctg aggtggaaga ggcggtggcg atggagtgcg agaccatccg 180
ccacatgacg gaggatgact gcgccgacaa cggcatccct cttcctaacg ttaactccaa 240
gatcctatcc aaggtaatcg agtactgcaa caagcacgta catgccgccg ccgccgccga 300

cgccgcctcg aaggccggtt ccgacgacgt ggggtgccgc tacgccaaca gcaccgtcgc 360
ctccggtgag gacctcaaga actgtgatgc ggacttcgtc aaggtcgacc aggccacgct 420
tttc 424

<210> 34018
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-013-Q1-K1-F6
<400> 34018

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gttccccact ccgatcgggt cgatggccgc cgacggcgag aagaacatga taaccctcaa 120
aagctccgat ggcgaggagt tgcaggtgga agaggccgtg gcgatggagt cgcagaccat 180
ccgccacatg atcgaggatg actgcgccga caacggcatc cctcttcta acgttaactc 240
caagatccta tccaaggtaa tgcagtactg caacaagcac gtacatgccg acgacgccga 300
cgacgccgcc tctaacgccg gttccgacga catgggtgcc gcctccgtca acagcacctg 360
cgtcttcggt gaggacctca agaactgtga tgcggact 398

<210> 34019
<211> 287
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-013-Q1-K1-F7
<400> 34019

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gccagtagaa aaaaagcgct agctctgcac tagtccagga aaaataaggt tgtttacatg 120
caatctttca gtgtgtgatc cctgaaacaa tctttgaagt ttctgaccgg cagaataatt 180
ttatttaagt attttagttg aatcagtgtg cttttttttg gatattctgc actcatgaag 240
ttaaaggatc aaaacttggt tctgaatgca gaaatgtttt ctctgtt 287

<210> 34020
<211> 244

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-F8
 <400> 34020
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 tcacacgacg gttactaact ccaatctggt ggatagtcac cactgaatac aagaaattca 120
 tcaccctatc actcaactat atcaaattctt ccaagatctt actgtcctaa tccatgatca 180
 agcagcactt atagatcaca ttcattccca tatatacaat cctcttctag cgacttccta 240
 acct 244

<210> 34021
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-F9
 <400> 34021
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 agggacttga tgttggaagg gtgtattttg tgatcctcga gatgtcccct gttacatata 120
 ttgattcgag tgctgttcaa gctcttaaag acttgcacca agaatacaaa gcacgccata 180
 ttcagattgc catagctaac ccgaaccggc aagtgtacct tctgttgtca agatcgggca 240
 tcattgactt ggtaggagct ggggtgtgct ttgtgagagt gcatgacgcc gtgcaagtgt 300
 gcctacagca cgtgcagaat tcattctcaa atgcgttgaa gctaccctgt caggcatcag 360
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<210> 34022
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 34022
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gagcaccaac aatggccgcc gcctcctcgt cctcggtcct cctgctgctc ctggccgccg 120
ccttggtggtg catgagcgcc aacgccgcca ccttcacat caccaacaac tgcgggttca 180
ccgtgtggcc cgcggccacc ccggtgggcg ggggcacgca gctgaaccgc ggccggacgt 240
ggaccgtcaa cgtgccggcc ggcaccagct ccggcccgct gtggggccgc accggctgct 300
ccttcaacgg caacagcggg agctgccaga cgggcgactg cggcggcgcg ctggcctgca 360
cgctgtctgg gcagccgncg ctgacgctgg ccgagttcac catcggcggc agccaggact 420
tctacgacat ct 432

<210> 34023
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G10

<400> 34023

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cgtgctcaag gtcacatcc tcggcgacag cggggttggg aagacgtctt tgatgaacca 120
atatgtgaac aagaagttca gcaaccagta caaggctacg attggggcgg atttcctcac 180
caaggagggtg cagttcgagg acaggctctt cactctgcaa atatgggaca ctgctggtca 240
ggaaagggtt cagagtcttg gcgttgcat ctaccgggga gcagattgtt gtgtcctagt 300
ctatgatgtt aattctatga aatcgtttga taatcttcac aactggcgtg aagagtttct 360
aattcaggcg agcccatcag atcctgacaa tttccctttt gttctgttgg gtaacaaagt 420
tgatgtagat ggt 433

<210> 34024
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G11

<400> 34024

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gggggaaaat tcaacaatc tatggaataa ctcaaattta ctaacacgtg cactcgatct 120

tgattaaggc accatagatc tattgtaaca taaactattg tcaataatgc aacatcataa 180
 tgacctggat atccccgatcg aaacccccct ttataccact tcaacaactg attttttttaa 240
 cggattttaa aatggcttgt taagattaaa ccgaagagga tttcccaaca atttcgcaaa 300
 ctgaactttac ctttttgctc gccctttaag ttcactctaaa cccccggatg atctgtactt 360
 ttccgcaatt ttacgcctcg aatttcaata taattcaca 399

<210> 34025

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G12

<400> 34025

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 tgacagaaga tgttttcatt ctggactgtc acacgagcat atttgtttgg gttgggtcagc 180
 aggtggatgt taaaggcagg ttacaagcta tggatgctgg ggagaaattt attgtgcttg 240
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 agcctccctt tttactaga ttcttcacct gggactccgc aaaatcactg atgcatggca 360
 attcatacca gaggaagctc gccattgtaa aagggtggagg tgctccagca ttggataaac 420
 cgaaaaga 428

<210> 34026

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G2

<400> 34026

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 atcactgaag taaatgaaat cttcaaagat cttgctgtgc tagtccatga tcaaggagca 180
 atgatagatg acattgattc ccatatagag aatgctgttg tagcgacttc gcaggctaaa 240

ggtcagcttt caaaagctgc caagactcag aagtcgaact cttcgctgat atgcttggtta 300
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 tttt 424

<210> 34027
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-G3
 <400> 34027

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 caggtagatg aacagaaaaca tgaagacaag agggatgatt tagccaaaga accactagtg 180
 gagtaccaga atttcgaaaa cagagcttca aacaacacaa aagacaatga tgcattcaag 240
 gttgaacaaa cagaggcagc caatagttag attctcaaga ataaagccct acatatatcc 300
 aaggaatcca cccaagcat tatggctatg aagggttgaag acattaagga aacaagtga 360
 ggaactgaag aagatgatgc tgccaaaaat gataacaaag atgaacagga gaatgcagaa 420
 aatgttgata tag 433

<210> 34028
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-G4
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 caaatgaatt cactcaaagg caccaccact catccagcct actgctcaat tacactcatc 180
 actaccaaac ttaccaaatc cacacatata aaccatagac aaactaatac atctatcttg 240
 attatatacc tactgatcca tttcctttca taattcactt atccatctac tctcgataat 300

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338

<210> 34029

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-G5

<400> 34029

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gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc tacgacgcct 180

tcatcgagge cgccagcaag ttccccggct tcggcaccac cggcgcgag cagacgcgca 240

ggcgggagct cgccgccttc ttcgccaga cgtcccacga aaccaccgtt ggatgggcga 300

ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag aaacagacgg 360

acccacccta ctatggacga ggaccatac agctaactca taagtacaac ta 412

<210> 34030

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F10

<400> 34030

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aagactttcc aaattccata tatctattca aatgctaacc aaacttttca taactatctc 180

ctaaaatcca tataacacct tatccacaat ttcatacatc tcaatatact tcaaccattc 240

cacattccta ccatatctgt catcatatca ctatctactt atctaacagt ccatcatccc 300

taatcataat tcaattcatc aactcctaca gaacatccag aattcatcta ctt 353

<210> 34031

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D2

<400> 34031

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tcgtcctcat gagatcttgg agatgactag taagtccatg accgaaccgg ttaggatcct 120
tgtgaagcgt gatgagctga ccctggaggg catcaaaca ttctttgttg ctgttgagaa 180
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tgttattttc tgcaatacta agagaaaggt ggattggctc actgaaaaaa tgcgtacaaa 300
taacttcacc gtatcagcta tgcacggtga catgccccaa caagaaaggg atgccattat 360
gggtgagttc aggtctggcg caactcgtgt gctaataact acagatgttt gggct 415

<210> 34032

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D3

<400> 34032

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accgtgtcct gcgtccactt catctgctct tccattggag cttacattgc aatccatgtc 120
ctcaaggcga aacctctgat tcaagttgaa ccggaggacc gctggaaaag gatatttcca 180
atgtccttcg tcttctgcat aaacattgtg ctgggaaatg tcagcttgcg ctacatccca 240
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ctagtctgga gcaagcattt cgagtggcgc atatgggctt cgctgggtccc tatagttggc 360
ggaatactcc tgacttcggt gacagagctt agcttcaaca ttttcggttt ctgtgctgcc 420
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<210> 34033

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-D4

<400> 34033

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 cctgtgttag cggcgtcagg aacctcaaga gcgccgccag caccgccgcc gacaggcgcg 240
 ccgcctgcaa ctgcctcaag aacgcgcga ggggcgtcag cggcctcaac gccggcaacg 300
 ccgncagcat cccctccaag tgcggcgta gcatcccta caccatcagc accttcaccg 360
 actgtccag ggtgaactaa aacctagacc acgcgcgacg acngnccgct gatcg 415

<210> 34034
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 34034

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 cagcacttgt tcggaagaaa aagaaggtag aacacgctaa caagacaaca aggatcatgg 120
 ggcgcggggc cggccacctc ctgctgccgg cagcagccgc ctgcctgtgg gcgctgtcgt 180
 gcgcgtgct gctgcacgcg tcccctcacg gcgcgggcgc cggcggcctg ctgagggtcg 240
 ggctcagcag gcgccgcggc gggctcgacc agcgcgcgct ggcggcggcc aaggccgcga 300
 ggcagcagga ggcaagccgt ctcgagacct cgggcggcgg cgacgtccct ctcgtcgact 360
 acctcaacac ccagtactat ggggtcgtcg gcatcggcac accgncgcag aacttcaccg 420
 tcatct 426

<210> 34035
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-D6
 <400> 34035

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gaataataaa aaaaagagga aaaaaactga aaagcaatct taaactacaa ccaggataaa 120
ctaagccatg gcgccctttc tttcttcctg cctttgcacg tcgttctctc tatacgcttt 180
cttctgcact ggtgctataa acctaaataa tggggccagt atcttcaa at ccagtcacgc 240
taaattcccat tgcgttacta actttactag gggagtgcgc gctctcaatt tccgtaacgc 300
cgacttcac at atgcaa 318

<210> 34036
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-013-Q1-K1-D7

<400> 34036
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agcaacggcg tggaggtgaa gagctacttc aacaagtccg ccgggagggc ggcgagcaac 120
aacaacaaca acagcagcca cgccggcggc ggcaacaaga agggcgggcg cggggagtac 180
ggcaggaaga agcacgcca gagcgagggc gcggcgggcg cgggcgccac ggacaagcag 240
cggttcaaga cgctgccggc gtcggagggc ctgccgggg gccaggccat cggcggttac 300
atcttcgtct gcaacaacga caccatggac gagaacctca ggaggagct gttcgggctg 360
ccgtccaggt acagggactc tgtgcgtgct atnccggcg gacttgccct ctctctctac 420
aactac 426

<210> 34037
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D8

<400> 34037
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ggcgggcggc aacgcccaga agtccaagat ggcgcgcgag aggaacgccg agaagaacaa 120
ggcgggcaaa ggcagccagc tggaggccaa caagaaggcc atgaacatcc agtgcaagat 180
ctgcatgcag accttcatct gcaccacctc cgaggccaag tgcaaagaac atgcggaggc 240

gaggcatccc aagaacgacc tctaccagtg cttccccccac ctcaagaact agtaagcagc 300
agaagcatat gctctgctca gctaaaaaga caagtactac atata 345

<210> 34038
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D9

<400> 34038

cccactcgtc ctcgtctact tcgttttttt acctctcaca tatgctaata tcacggtcag 60
cgctacttcc accatcgaga atcataacta aacactctct actaacatcg ctcacacac 120
acactgtaca cacatactta tttactccat caccacgtca atgatcatcc attatattat 180
atactctgtt accttcatct caaccatttc caatcctgct ctataagaac attcaaattc 240
catctaaaca aactacgata ttttctagat cttccctcac 280

<210> 34039
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E1

<400> 34039

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agatggcgga tcaggagacc gtagctgtgg ttgaggcacc taccocgggt cttggggaac 120
cgatggacct gatgactgcc ctgcagctcg tcatgaagaa gtcaggtgct catgatggcc 180
ttgtgaaggg tcttcgtgag gctgccaaag ccatcgagaa gcatgccgct cagctctgcg 240
tgcttgccga ggactgctac tagcctgatt atgtcaagct ggtgtaggct ctttgcgctg 300
aacacaatgt ccatttggtt actgtgtcta gttccaatac tt 342

<210> 34040
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E10

<400> 34040

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tccctgccat catatcgtag gtgagcccgg ccgagcgaga gcgagggaga ggcatggctg 120

ctccgaagct cgcgacgctg gcgctggccg tgctcctggc ggcgaccgtg gtggctcccc 180

cggccgcggt gcgcgcggcg aagtcgtgtt ccaccgcgta cagtacgctg ataccgtgcc 240

tgctgatcgc acagattggc ggg 263

<210> 34041

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E12

<400> 34041

attcccgacc cgacccaccc ttcccacgac ccttcatccc acccctcttt ttcttactat 60

cctcgaccat tctcacacaa ggcgatgtct tcccaaaact ctgaatgtca aattcaataa 120

attcaaccaa actcaataaa cttctcaatt aactattact ctcttaacat acccaaattc 180

catttcattt aattattgac tcccataaat gacttaacta cattacaact atacttctat 240

actatacatc caaaccacat ccacattaac taacttaacc caatcactca tcaaataata 300

ccctaataat ctttactcta taccaacttt tctaaattac ttcatacttt tattataatt 360

tacatcctcc aaccacattt caaataccac tactttttaac gttattttac ttat 414

<210> 34042

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-E2

<400> 34042

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cggggcaggc gtacgtcgag gagcacctga tgtgcgagat cgaaggacag catctcagcg 120

ccgccgccat cgtcggtcac gacggcagcg tttgggcgca gtccgagagc ttccccgagt 180

taaagcctga ggaggttgct ggtatcataa aggactttga tgaacctggt actcttgac 240
 caactgggtct tttcgttgga ggtacaaagt acatgggtgat ccaaggtgaa cctggagttg 300
 tcatccgagg aaagaaaggc actgggggca ttactatcaa gaaaaccggc atgtccttga 360
 ttatnggtgt ctacgacga 379

<210> 34043

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E4

<400> 34043

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 cgggtaattc ctacggcctg gggggaaaaa agggcattaa cttattatag agattgagcg 120
 atttgactat tttttttttt aaccgtacct atatctcatt cttacaaaac ttacacaggg 180
 ttcagcctag agagaacagc tgttatcata ggagactctg actagcctaa ggctatggga 240
 actactggtc ttttctgtgg aggatcctag ttcgttggtga tccaaggtgt acctgtagtt 300
 gatatactaa gaaagatagg cgctgcgggc attactatcg ataagaccgc catgtacttg 360

<210> 34044

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E6

<400> 34044

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 gagttttcgt attcctgcag tacaggatca gccacaacgg ctcggaatt ccatggctct 120
 attggattgg atggaaaaat tccttttcat ctaagtggaa ggatcctgta tttttttact 180
 aggaattctg ctccctcgaa aagtttttct ttggggaaaa ccaaaataaa aagagaatgg 240
 aagaattctt cttattccat aagaaaaata aggaacccta gaattccatt tgcataaggt 300
 acattacgcc atacaatcta aatataaaag gggatatggg caattaatga ctttgaaaac 360
 gcgaaatagc tgatgaggga agttgctgtt gagaaatagg aaagtggaat gaaa 414

<210> 34045
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E7

<400> 34045

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120
aataaaaaaa aaaaaaaaaa aaaaacataa aatttttaaat ttcaaaaatt ttaattaaat 180
taaattgaaa attttttttt ttttttaagt tttcttaaatt taaattaatt aactttatgt 240
tttaaaaactt ttttaattta aaaaaccttt tttttcccca atttaattac ttttaaattt 300
ataaaactttt tgttacctca tattttat 328

<210> 34046
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-E8

<400> 34046

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gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaag ggcgcctttt ttaaaaaatc aaaatttaatt tccccttctt ttcaaatcaa 180
aatttttttt atggggcccc caaaattaaa ttaattgccc gtttttttaa aacttcataa 240
ttggaaaaac ctttgattta ccaaatttaa ttacttttga aaaaatcccc t 291

<210> 34047
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-D12

<400> 34047

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taaaattctt gtttcttaat aaattgcagc cctttgttgt gttcttggcc agcttagttg 120
 atttgtagtt aagcttcttc acccttagtt gtgtttatgc tctgcttagt tgatccatta 180
 ctgcaggtct tggctgaact tccagctcca gttctaaatg gtacaatgct tacagtcgaa 240
 gatttgcata aggaactaaa atgcagtatc aacatcaaac acagggatga gttcgatgaa 300
 gaaaaggagc ctgacagaat gggtcttgtt ggggtggtctg gccagttga taagcaaacc 360
 actaataatg gtgagactaa atcagttcca tcttcatcca atacagaaga tgtggatggt 420
 act 423

<210> 34048
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-E9
 <400> 34048

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 atcataacat tacatctatg agggcttact ccatcttaca gtcagcacct accatcttat 120
 cttcatctga cctactatcc ttactactat atttacactg tataacataa aaactatcct 180
 acaaaataaa tttcaaaatc tctacactat cgtttaattc atcacttttc aaatactctc 240
 tttc 244

<210> 34049
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-013-Q1-K1-A9
 <400> 34049

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 gggattctca tggcactctt cttgaacact gctggcggcg cctgggataa tgcaaagaag 120
 tacattgaga ctggcgctct tgggtggcaag ggcagcgagt cccacaaggc tgcggttact 180
 ggcgacacgg ttggagacct attcaaagac actgctggac cgtcgtgca tgttcttata 240
 aagatgctcg ccacaatcac gctggtcatg gctccgatat tcttgtgatt aaccagacca 300

ctcatcaagc ttgctattaa ccctgcggag atgtacctat gcgaccaggt agatgagggt 360
 tgtgtgtgtg tgcgttacct gcatgtgatg atgtaacggc ccaatcggtt tgtgtcacga 420
 catgct 426

<210> 34050

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B1

<400> 34050

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 tcgggaagct cttcagccgg ctcttcgcca agaaggagat gcggatcctc atggtcggcc 120
 tcgacgcgcg cggtaaaacc accatcctct acaagctcaa gctcggcgag atcgtcacca 180
 ccatccccac catcggtttc aatgttgaaa ctgttgagta caagaacatt agcttcactg 240
 tctgggatgt cgggggtcag gacaagatca gacctctttg gaggcattac ttccagaaca 300
 cccaggggtct tatttttgtt gtggacagca atgaccgtga ccgtgttgtt gaagccagag 360
 atgagctcca caggatgctg aacgaggatg agctacgtga tgctgtgctg cttgggtttg 420
 ccaacaagc 429

<210> 34051

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B10

<400> 34051

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agacaaacaa tataaaaaaa tccagcctta 120
 cctcttagtg catccaacct catatctctt ttattgagac accttaattc ttttactgg 180
 ccacctatctt acaacttact gactgggaaa tccatcctt taccctaata aatccctttg 240
 cttcccatcc tcatttcccc agctgccctt ctacctttca gccctgacc tatctccctt 300
 cacatcagtt ccgctccctt ttt 323

<210> 34052
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-B11

 <400> 34052

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 ttaccgggtg agcggatcga gatggctgcg tccgatgttg agtaccgctg cttcgtcggc 120
 ggcctcgect gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
 gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggtctc 240
 gtcaccttct ccacagagga cgcgatgcag aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac cgtctactag gcccaatccc gcggcgccg ttgaggctgc 360
 ggcggatgcc ggtacggtac tggccgtgga tgccgcagct a 401

<210> 34053
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-013-Q1-K1-B2

 <400> 34053

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 catcagagat gtccagtatc ttttaactgc tcccaagata taaaagagc acaggtcaat 120
 cacgacaaag gatttctta gtgctgttcg acaccacctc caggagcagc gtgaggcctc 180
 accgttgctg catgatgtca tcaactgcaa aaaggatgat acaatcaagg acatcatact 240
 gaagctggac tctgagaaga tccacaggat ctacgttgtg gatgacaaag ggaacaccga 300
 gggagtcac accttgaggg acataatctc caagctggtg catgagccac gccattactt 360
 tggggatttc ttgatggtg ttgttccct gcctgcaaac agcaccgtat gacacatctt 420
 cgc 423

<210> 34054
 <211> 433
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-B3

<400> 34054

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tcgatctgtg acgaccgccca agccgaagcc gaaggcagca gcagtcgtca agttcatcga 120

tctcggcatc gacgaccgcc cgtccatggc gcggggcaag gtgcagctgc ggcgcacatcga 180

gaacccagtg caccggcagg tgaccttctg caagcgccgc gccgggctgc tcaagaaggc 240

cggggagctc tccgtcctct gcgacgccc cgtcggcatc atcgtcttct ccgcgcacgg 300

caagctctac gacctcgcca ccaccgggac catggaagag ctgatcgaga ggtacagggc 360

tgccagcaac ggngaagcag ccgacggctg cggcgacaat aacagaatgg acccaaagca 420

agaaaccatg gtg 433

<210> 34055

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B9

<400> 34055

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ggatggtgcc agtttccagc agagtgtcca gaataaagaa caagtgaggt tctacttcga 120

agcgtgaaac cttttgctca ctttgcgagt aatcgtacaa aggataaaca gttttggagt 180

gcggtccaac cgtgccgtag aagcccgtcc tatgatccga aggcaagttg gcattcttgcc 240

atcgaatagt tccattatct tctcaaataa gttgggatgt ttgaagcgat tttagttttt 300

ttttggtcat attctttagg tgtggtgtat agatatattg cttattcttg ttgtaaatta 360

gttcatatct ggtactggta taatgacaac tattaatacc ac 402

<210> 34056

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C10

<400> 34056

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gcgagtatct ggcaacgctc cggatgaatta cagcaactgg aggtgaggcg accgctgcgg 120
tgccgtgcat caccaccctg ccccggtgcc cccccgctcc acgacgacgc ggcacccgca 180
cgtagtcgga acggcgagca cttgagctga gtcggccgcg ctccggcttt ctgccccgag 240
ttgctcgggtg ccgcgtcttc cctcttttcgg cggcgtgatc tgctgtctcg cgctaagaga 300
gctgtcgtct cccggctccg gcacttgac aagacctga gctgatcggc cggccttctg 360
cgcgacggtg aatctccgct tctcattttg ataatttccc gcaagtcccc tcacttcgga 420
tttgactgaa g 431

<210> 34057

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C11

<400> 34057

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caagcacgtt agggccagga tgaccaagac gttggtgcc tagggacgca ggagcagcaa 120
cagcagcaag agcgtagtgt gtagtggttg gaggagcacg cgcagtagga agactgatgg 180
tgtacagtga ccagagttg ttgcacctaa ggattgtgtt cctggaattg agatccttca 240
cagaaaggcc aaacaggtca aattccatgg aacaattatt atcagtcgta aactgacgaa 300
cagaaagaag attcttaatg atatcaggtg taacaagaac attgctaaga taaaactggc 360
cagaaagcac catatc 376

<210> 34058

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C2

<400> 34058

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agggccaaact gctcctgggc cttgtggctt cgcttggcgt gctggcattc ttcttccttg 120
gcgggtacca agacttctgg attggcgacc tattcggcgg cggcacgccg ggcgggtacc 180
cgtgcaagcc cccgaaggac ctgaccggcg accactttca ctatgggggg cttggcaacc 240
ccggcaccgg gcttaaacc ttcaagaact tcctgggctt gggcgtcgtc aacacgtttc 300
cc 302

<210> 34059
<211> 190
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-013-Q1-K1-C3

<400> 34059
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agaaagaata aaaaaaaatg aagagataaa aaaaaaaata aatcaactaa actattattt 120
taaaatTTTT tatttttaat actattaaat tacttatttt ttcaacttta caaatTTTaa 180
aaaccttata 190

<210> 34060
<211> 241
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-013-Q1-K1-C6

<400> 34060
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aactggtact ggcttaagga cttaaattta caacctgcat tattctatcc ttagccaggt 120
acaagaattt ctattcccc aacttttcaa cggcgcact gccaaacgt tccccttcca 180
aaccceaaaa gacctgaacc gcatccaatt tcaataatgg ggccttatca accccaggcc 240
c 241

<210> 34061
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C7

<400> 34061

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gtcaagaggt tgaagagtgc aaagaatggc acagaagcag aatttgcttc agaagtcgag 120
atattgggaa gaataagaca caaaaacctc ctgagttttc gtggatattg tgcggatgga 180
cccgaacgga ttctgggtga tgactttatg gcaaactcaa gtctctatgc acatcttcat 240
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actgcteggg ctctcttgta ccttcaccac tatgcaacac ctaagataat ccatggaagc 360
atcaagacca ccaatgtgtt actggattca gacttccagg cacatgttgg cgatttcggt 420
ctga 424

<210> 34062

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-C8

<400> 34062

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tattatatag ggcggcgctc gatcagtagc acatcaaaca tggctatcat gataaatcga 120
ctagtcaactg aagtacccaa caaatgacgg tagtgccctc acttgaccta tcgcagtaca 180
tttccctgtc gtacaagatc tcatccttcc cattcttcta ccaactgtat cactgcctcc 240
acacacgcgc catcta 256

<210> 34063

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A8

<400> 34063

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gagcacctag cagcgcgcgg ccggcgactc caccgagaca cctcagccgg ccgcgcggtc 120

gcgggttgct cgggctggct cctcgctcg atggtgggga tgtaccagca ccaactccgc 180
gacgaccct tcgacaccct aagcggcggc cactgcgagg tacatggcgg cggacagccg 240
cggcagcggg tcgaggcgct tgccgacgga agaagcatgt tgcgcggcgg ggaagcgg 300
atagttggcg ccgcggtgg agatctaggg gtgctagcgc ggtggatgcg ggaactcgca 360
gcggatcccg tgggtccact tcccgcgcca tcagagcaca cggtgaggaa gcggcacgtg 420
ctggcat 427

<210> 34064
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-013-Q1-K1-D1
<400> 34064

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aatctccttc taatactgca taaacattca tcatgcaa atcacttttt gctacatccc 240
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actattc 307

<210> 34065
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<212> DNA
<213> Zea mays
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<400> 34065

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cctttacctc aacttttaca tctctcacct tcacaatccc ctttcacctt tggttgtacc 180
gtacaaaacc atattttaat gcattacttt tcaatggcac tctttccagc acttgaaaat 240
tccctataac atgctccatc ctgccttctt acatcttcaa cccatatgaa gacatctgta 300

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tctcaattcc atattttatt agatttcatt 390

<210> 34066
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G5

<400> 34066

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ggtagctaac ccaaattaac aactctatga ttaacacctt gtgcaaatac taagaccaca 180
gcttctgtca acttagttgc tatgaatgta atccctatct tttcatctga catcacatag 240
acccagacaa ttcaactgaa ctgaataaca tttagaacaa ctgaaagact accaagatgc 300
atcttcacaa aggactttta acacggttgc tatga 335

<210> 34067
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G6

<400> 34067

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gccggagtcg gcgggcgggg agctgtcggc ggtgtgcccg tgggcggacc aggtgcgctg 240
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gttttctcgg gactgccaca attctcgtgg ccagcaaggg atgtgcgtcg tcggggctat 360
caacaactac acggaccagc tctacagcta cgccagaag acttcgtata acctgacgga 420
gagcctgatg ttctggcac acttcgtcgg cgac 454

<210> 34068
 <211> 453
 <212> DNA
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<223> unsure at all n locations
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<400> 34068

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cgccgtggga ccaacgttag tgctagattg gatgccagc agaagaagct taacctcccc 180
atccttccca ccactacaat cggttcgttc ccacaaaccg ttgagctcag gaggggccgc 240
cgtgagtaca aggcaaaaaa gatctctgag gaggaatacg tcactgccat caaggaggaa 300
atcaacaagg tcgttaagct tcaagaagag cttgacattg atgtgcttgt gcatggcgag 360
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gccaatggct ggggtgcagtc ttatgggtca agg 453
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<210> 34069
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G8

<400> 34069

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agaagaccac cgtcgccagg ttccggcgcc gcacggcgac gtgcagggcc agcagcggcg 180
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gcgcggatgc ggtgtgcacc agggccgaca aggtgaacga gaagaccgtg cagtgcacgg 360
acccggccgg gcagcttccg tgccctctgg tgtcgccgac tgaccccggt gacttcaagg 420
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<210> 34070

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-G9

 <400> 34070

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 gttattctga tgtcctctac ttggacgctg ttcacaagaa gtaccttgaa gaagtttctt 180
 catgcaatgt ttttgttgtc aaggacaatg ttatttctac ccagcaata aaaggaacaa 240
 tattacctgg tatcacaagg aaaagtataa ttgacgttgc tttgagtaaa ggcttccagg 300
 ttgaggagcg gcttgtttca gtggatgaac tgcttgatgc tgatgaggta ttctgcacag 360
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<210> 34071
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-H1

 <400> 34071

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 cacagcctga cttcctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180
 gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 240
 aacttttgca gctatatgaa atgcactttg gaaaatcagg tcttgaggac gaaaaacacg 300
 ataaaatgga cttgcctact tttgcacga agaaactcat aagtaatcca atttccgagg 360
 acacgaacgg aagtaagctg tttttggtat tcgtatcgga attagccaga agaagaaacc 420
 attttcaactg cccttcattc ttg 444

<210> 34072
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H10

<400> 34072

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cctacatgac aatgtctttc gcccgatcg ctctctgtg gccggacgtt ttatccaaca 180
cgagcggcac tgcaccaatg aggacccaca g 211

<210> 34073

<211> 205

<212> DNA

<213> Zea mays

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<400> 34073

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agctaactct aacttaagag gcctggttgg agttcacact tcacggggta aaatagcagc 120
ccaaattaca tgtactgata ggatcttaag gttttaatga gttctgcttt gtttttcaat 180
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<210> 34074

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H2

<400> 34074

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cacagcctga ctctctctag atgaaagcat aggtagtac gacctattgt tttcttctca 180
gcggacccaa tgagtaacta cgccatgtta cgaataaaag cgagggaaaa tcggatgagc 240
aacttttgca gctatatgaa atgcactttg gaaaatcacg tcttgaggac gaaaaacacg 300
ataaaatgga cttgcctact tttgcaccga ataaactcat aagtaatcca atttccgagg 360
acacgaacgg aagtaagctg attttggat tcgtatcgga attagccaga agaagaaacc 420

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444

<210> 34075

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gaggtggagg ctgcggcggc nggtggcgct gcggtggagg cggctgcgga gtggctatat 180

gccactgcga ttgctcacac catgatcatt cacctccaag gcaaccgttc ttcccttcac 240

cgcattcttc attttt 256

<210> 34076

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H8

<400> 34076

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tttcgtacct ttagtaggct tagtatttcc ggcaattgca atgacttcct tatttcttta 120

tgtgcagaaa aataagattg tctagaaacg acggggccaa attttctcaa tgtatttcca 180

ggatcataat acagatattt ttttgcgtaa gtactataat atgatagggt atgtagctct 240

ttctacacac aaatgaaaaa cgtctatgga tgcagatata agctacgagc ataaatgcat 300

gcatatgcgt agccgactat agcgagtttt tcttttttta agtggatcca ctaatttttt 360

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tat 423

<210> 34077

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A1

<400> 34077

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ttttccccc caattatacc ctctagatc attctcttaa actctaccct cccatattct 180
ctataaatac acacctttta atgttataac ccctaacttc ccggaccctt tctcac 236

<210> 34078

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A4

<400> 34078

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gactctgaaa acgggagttc atgtgaaaca acctccatca caacttcaga tgattctgca 180
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gatatgacct gtcattttga aaacttggga ttgattgttt gctgtaattt taagggcaaa 300
tacattcaag accgaggcaa gggaaatggg taagggtctt ggggtgtttt ttgagggtta 360
atagtgtgat tgggtgaaag atgtttgaca tcctgtaa atctctataa ctagtgacaa 420
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<210> 34079

<211> 187

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-013-Q1-K1-A5

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cccaattgta ttctctagat gcgtcctcag ctacttactc agcccaagtt ctctgtaaag 180
agactcc 187

<210> 34080
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A6

<400> 34080

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aaaagaagtt gaaccatggg gaagagaaag tcagctgcta agccacctcc taagggaagcg 180
gatggacaag cttgacactg tcttttcttg tccattctgc aaccacggga gtagtggtga 240
gtgccgaatt gacatgaaga atctgattgg cgaagcatct tgtagaatct gtcaggaaaa 300
cttcagcaca actgttaatg cactcaactga gcctattgat attgaatgga ttgacgagtg 360
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ct 422

<210> 34081
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-A7

<400> 34081

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agaacaccca gggctcttatt tttgttgtgg acagcaatga ccgtgaccgt gttgttgaaa 360
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<210> 34082
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-G3

 <400> 34082

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 ctcaaaccag tactgatcac tctcccttgc gctcctgctg acaataagca acctctatcc 240
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 cttgtacatt ccaacattca cccaacttct actcctctat gggagatcaa tgaatatggc 360
 aatgaaatca tgcttacatt cttcaacttg tctgactcta ctacaa 406

<210> 34083
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E2

 <400> 34083

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaatac 180
 atataaaaac aactaaaata aaaacaaaaa 210

<210> 34084
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E4

 <400> 34084

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<210> 34085
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E5

<400> 34085

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<210> 34086
 <211> 453
 <212> DNA
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<223> Clone ID: LIB3068-012-Q1-K1-E6

<400> 34086

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 caaatgtggg ctgctggttg gcaaaaggct cttgcagaag ttggacccaa tgttgtctgg 180
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<210> 34087

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E8

<400> 34087

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tcaaacattc ttttactatg caacacatca ctatgaactt attaatacta ctctcctctt 180
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tccttcaatc attacatcac ctgacactaa caatctacct atctac 346

<210> 34088

<211> 419

<212> DNA

<213> Zea mays

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<400> 34088

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aagcattctg gtagttggca ttgcagcatt tggaacgtat taggaatatg ctacagatca 180
caaggaacat gtctgcatta cttgggttctt ggtttcaata tgtttgtctg ggggggtgcat 240
aatgtatcat aatttgtttt cacgggtgtca aaagactage ttagctgtcc gctggatgtg 300
ctgcaatccg tgcacacct gacactagca atctgtttat tctaccgaat ggctcctgga 360
tatatagtcg ttttctttag cttgacgttt gctttgtggg tactgggtggg aaattcatc 419

<210> 34089
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-F1

 <400> 34089

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 atgtgatgcg attgcaagcg tgc 443

<210> 34090
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-F11

 <400> 34090

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 acgcacgag cgctgtctat actagcattg tcggcaggcg tcgcgacact ggagtgcagg 240
 tcggcatctg cactaagat gactatgttg acgatgaagc taaatccaga ctaggtatac 300
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 atct 364

<210> 34091
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F12

<400> 34091

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aagccccgga tccgtaggct ggctcggagg ggcggcggtga agcgcatctt ggggcttata 240
tacgaggaga cccgcggcgt cctcaagatc ttcttcgaga acgtcatccg cgacgccgtc 300
acctacaccg agcacgcacg ccgcaagact gttaccgcca tggacgtcgt ctacgcgctc 360
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<210> 34092

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F2

<400> 34092

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ggagagaagg gcattggtga tgggacaggg aactatggaa tggatgatgc tgatgacatc 180
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catctaacag ctgaaagttg ttctgtgaca aagactattc cgagaaacca cccatctgtc 300
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<210> 34093

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F4

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<210> 34094

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-F6

<400> 34094

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atgtgcattg attttattgc tctaaagctc gcctaactta tttgacttga caagaacagt 180
ggaagagaaa gattctcaac gtctaacagc tgcttttagct tgaatcgggt tgcgctgagt 240
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accagaatt gtcataaaa ctctgtttca acattttctg ggttttagagc acattagaaa 360
tatggagtag gtaatccgct tggtttccct gatttctcta tcttagatcc gcataccata 420
cccggttcag attggaaagc caaggtagtg gc 452

<210> 34095

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G1

<400> 34095

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aatgagcaat gtcgacaatt gcgacatccc tcggcctgct aatccgtccg ccaagatcat 120
cagctggtac gccgtccttt gggctctctca aaccagtagt ggtgactctc ccttgcgctc 180
ctgctgagaa gaagcggcct cgatccatct gttactctgt ggatgccaag gctaacgacc 240
atgccttcaa catctctccc gttgcccttg tgcattgcca catgccgcca acgtctacgc 300
cgcgatggga gatcaaggaa gatggcaagg aagtcaggct gacattcttc aacttgctcg 360

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gcacgaaacc caagcc 436

<210> 34096
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G10

<400> 34096

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ttcatgataa cttgacggat cgcacggcct tcgtgccggc gacgcatcat tcagatttct 180
gccctatctt ggagtcaatg gagtctggca ggagaccatg aagaagcatg ccaactgggtt 240
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aaaaacagta tggaggtata tctaccacca cctgatgatt tgatgaacca cagactgtcg 360
tggttagctg taaatgacag cgaatgttta tgtttctagt gacaatgtga ata 413

<210> 34097
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-G11

<400> 34097

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cccctcggcg gcttcgtcaa cgacgccgag aacactttga ggaatggctg aagaggatgt 120
ccagccccctt gtgtgtgaca atggcactgg aatgggtcaag gcgggtttcg ctggtgacga 180
cgcaccgaga gctgtctttc ctagcattgt aggcaggcca cgccacactg gtgtgatgg 240
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gacactgaag taccgaattg agcacggcat tgtcggcaac tgggatgaca tggagaagat 360
ctggcaccac accttctaca atgagcttcg tgtggca 397

<210> 34098

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E12

 <400> 34098

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 aagatctgcg acctgggtga caaatgtgta ctggcatctt ctggctttca aggtgatatt 120
 aaggctctgc agaagaacct agctgccaga gaattgctgt accaacacca gcataataaa 180
 aggatgagct gccccgccat ggcacagctc ctctccaata ccctgtacta caagcgattc 240
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 ttcacctatg atgcagtagg ttcctatgag agaaccgggt acagtgtca gggaacggga 360
 tctactttga tcatgccagt cctggacaat caactaaaat ca 402

<210> 34099
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-C12

 <400> 34099

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 ccaaagagga gctcctcaag atggagagcg atatactcaa gcttctcaag ttcgagttgg 120
 gcaatcctac cattaagacc ttcctgagge ggttcacaag atctgccccat gaagacaaga 180
 agcgctccat cttgttaatg gaattcttgg ggagctacct ggctgagttg agtctactgg 240
 attatggctg tctccgattc ttgccatcag tagttgctgc ttcagttatg ttcgttgcta 300
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 acaaagtttc tgaactcaag gattgcatcg tagccatacg tg 402

<210> 34100
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-C2

<400> 34100

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gctgggttct ttctatctcg acgacggccg catgcacacc aactctggct tcagcgacag 120

cttcttcagc aacaaccggc caacaatggg atggctacga cagtcctgtc cacctagcta 180

c 181

<210> 34101

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C3

<400> 34101

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ctcggggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt cttcaaccac 120

cacaagaagg acgaggagca gcccgccggc gagtacgggt actccgagac cgagggtggtc 180

accgccaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac 240

aagcagcacc tcggcgaggc cggcgccatc gccgcccggc ccttcgcact ctacgagaag 300

cacgaggcga agaaggaccc cgagcacgcy cacaggcaca agatcacgga ggaggtcgct 360

gccgcggcgg ccggcgggcg cggcggttac gtattccacg agcaccacga gaagaagaag 420

gaccac 426

<210> 34102

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C5

<400> 34102

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ttctgggggt tatcagtggt ggtatacaat tggattgcgc accaatgaag atctttatac 180

tggagctctt tttctattat ttctttctac gctatcctta ataggggggt gggttacatct 240

acaacccata tggaagccaa gcctttcgtg gttcaaaaac gcctaatactc gtctgaatca 300
 tcatttgtca ggacttttcg gagtaagttc tctggctcgg acaggacatt tatttcatgt 360
 tgctattccc ggatccaggg tggagtctgt ccgatggaat catttcttag at 412

<210> 34103

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C7

<400> 34103

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 gagcgatcgc ttcccacagc gcttatgcaa acgagcaagc agcccggttt gctaattggtg 120
 gtgcataccc tccggacctt agtctcatca caaaggcaag gcacaatggc cagaactatg 180
 ttttcgctct tcttactgga tatcatgata cacctgctgg tgttcagatt cgtgaggggc 240
 tgcactacaa tccctacttc cctgggtggg ccatagccat gccgaagatg cttaatgatg 300
 gagctgttga gtatgaggat ggtacacctg caactgaagc ccagatgggt aaggatgtcg 360
 tatcattcct ttcgtgggca gctgagcctg agatggaaga gagaaagctg atgggagtga 420
 aatggatctt tctactatca ctagcgc 447

<210> 34104

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C9

<400> 34104

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 agcaatggaa gaggatgatg acgaatatca aataccgaaa tcaaggcggc tgagatgagg 180
 aatcaagaaa gatgcttcaa agaacgtaag cgacgccac atacagcagt accacgcatt 240
 cgccctaaca ttacagcagt catctagtga ttctacttga gctcagggca acagattaaa 300
 catacactga t 311

<210> 34105
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D10

 <400> 34105

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 ggccccgccc ccgtcgtcga agccccgcaa gtccggcggt ggcaagcaga agaagaagaa 120
 gtggagcaag ggaaagctaa aggagaaggt gaacaacgcg gtgctgttcg accaggctac 180
 ctacgacaag ctgctctctg aggtgccccaa gtacaagcag atcacccctt ccctcctatc 240
 cgagcgccctc aggatcaatg gctccctggc tcggagggct atcaaggacc tgatggcgcg 300
 tggcctcatc cggtttgtct cggttcactc aagccagcag atctacacca gggcaacaaa 360
 tacctaagga tgggattccc ttgtttgccc tctctgtagg agctcgtctt ctttagaac 419

<210> 34106
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D3

 <400> 34106

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 tacgggaggg gtgaatttag ttacaggtct gattacgggg tcagaagtgg tggcagaggt 180
 ggctcatcac gtggagctga tgttggctac cagaggggtg accatgctgg atatgctgg 240
 ggtcgtggta gccgcacagc agctgctggc gcaccttcaa aatgaggggc accatagctg 300
 ttgcgcgtct tttgggagtg ttgttcgggtg gctctaagat tattttgaag ttggcataga 360
 ggctcatcaa ttggttcagt gcgggattac aagagaagcc tggatacaaa ttatgaggg 420
 tcctgtcctt gatcattatt tttgcaggca gc 452

<210> 34107
 <211> 452
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D4

<400> 34107

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atggaccaca acagccccgg cgcgagatc atccgcagca tcctccgctc ctgatcgccc  180
acgcgcctcc tactgcggcg gcgcggggcg gcgcgcgaga gagcgaggtc ggcgacgacc  240
tcgatcgccg acaacgacga ccgcgcgcgc ccgcgcccc ccgcccattct gttctctcca  300
ccggctggcc gccgggagcc gagctcaatt agctagggtg tatctcaacc tctctctctc  360
tctctctctc gtcgctcta catgtgtgtg tacctttctc ttctttcac ctgcctgtct  420
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<210> 34108

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D6

<400> 34108

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gccgaaaacc aaaccagag cgtgtgcgaa cggaccgagc cggacttctc ttctcgggac  120
ccgtttgacg gtgaactatg cctgagcgat gcgaatccag acgaaactct ggaggaggca  180
cgaagcgata ctgacgagca aatcgctcga ccgacttggg tataagggcg aaagaccaat  240
cgaaccatct aggagctagg cccctccgaa gcgcccctca cgatagctgg agcccacacg  300
agtcctatcg gataaagcca atgattacag gcatcgaggg cccaacgccc tggacctatt  360
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<210> 34109

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D8

<400> 34109

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gttccttttcg ccgctgccga cgttctaccg cgtgtaccgc aagaagtcga cggagggggtt 120

ccagtcgacc ccgtacgtgg tgacgctggt cagctgcatg ctgtggatct tctacgcgct 180

gctcaagtcc ggccgagcgc tgctgggtgac catcaacggc gtcgggtgcg tgatcgagggc 240

ggcgtacctg gccgcgtacc tgggtgtacc gcccaaggcc gccagggcgc tcacggccaa 300

gatgctgctg gggctcaacg tcggcgtctt tggactcgcc gcgctcgcca ccatgggtgg 360

ctccagcgcc ggctccgcg tgcgctgctt cggatggatc tgcgtcagcg tcgcgctcag 420

cgtattcgcc gcgccgctca gcatcatgcg 450

<210> 34110

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D9

<400> 34110

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atgtcttgca actgcggatc aagctgcggc tcgaggctcaa gctgcaagtg cggcaagaag 120

taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc 180

ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cggagtcagg cgaggccgcc 240

cacggctgca gctgcgggtg caactgcaag tgcgaccctt gcaactgctg atcacatcga 300

tcgacgacca tggatatgat tattatctat ctagcttggtg gtgggtgggtg aacaataata 360

agcgaggccg agctggctgc catacatagg tattgggtgg tgtg 404

<210> 34111

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-E1

<400> 34111

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gcaagtataa acaaataaaa atataaatat ctaacaaaca catacatata actactaata 120
ctctaatatc attaccaata aatccatctt cattccccctt actatataac atcctctctc 180
ctactatcca ccatactctc caacttaa 208

<210> 34112
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-012-Q1-K1-E11
<400> 34112

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tgggtgtctgg tcaattccct gtgatttgca ggctcgctgg atgagttttg cagccttagc 120
caacctttta gggtaggaca attttaggct cgcaaaattc tatccttggt aggaagcatc 180
ttggataatc tgtcacgtcg gccatgttct tcgtggcctg ttgttgccgt cttggttgctg 240
caagaaagtt tctctcgagg acagttgctc cgtcttggtg aatttttttt tgggggggct 300
tgtaagagca tttgttatag aaactcacct caggtgggtg ggttgcatc tccgagttgt 360
caaagtttat tactggttcg gagtagattg tatat 395

<210> 34113
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-012-Q1-K1-C11
<400> 34113

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gcgacgcatt attcacatat cgccctatc aagtttcaag ggaaagctct gaacctccca 180
tctcggcgctc tggctaccta gaattacact ccgattacca agcggatgcc tgccaaactt 240
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gtgacgataa ttaactaaga ggacgtcgct cgagattact cagcctacat agcgtgcac 360
gcaacttcag tagcatattc atagtgttac ctaaa 395

<210> 34114
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A12

 <400> 34114

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 aaggccatcg acatcaaccc ggggcagctc aagtgtgca ccaactgcaa cttctccttc 180
 tcggggctct acacctgcga cgacgtcaaa aaggactgcg acccogtctg caagaagtgc 240
 gtcgtcgccg tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc 300
 ctggcatgt gcggcccaa gtgctagatc agagaggaag aacgcgcgct gctgctagct 360
 gctatagctt c 371

<210> 34115
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A3

 <400> 34115

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 acgcgttatg atagatgggtg acgggggtccg gatgtccat tatgtgcttg cagatctagc 120
 atgtgtgccc ggcattgcaa cttacgttcc tctttttcac tgggtccatat 170

<210> 34116
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-A4

 <400> 34116

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 acggaccctc ctctttgtgt gctgccatcc gtccccgtta gacgatcgag gagagaataa 120

cgcagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180
 gttcgtccta tatgttttagc agcagcaggt gtattgtgcg ggtatgtaat ggtattgcaa 240
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<210> 34117

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A7

<400> 34117

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 ggcgacgact acgacagcgg ctacaacagc aagtccggca ctgatgacta cggccgtggc 180
 gaaggtggct acaacaagtc gggcgggcgat gacgactaca gccgcagcgg cggcgatggg 240
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 tccggcgggc gagacgacta cggccgcagc ggcgcgacg actacggccg tggcaccggc 360
 ggcggcgggg acaacaagtc cggagacgac ggctacgaca gcgggtacaa cagatcgggc 420
 accaccaacg acgacgaata 440

<210> 34118

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A8

<400> 34118

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tggaggtgat ccactcccgc tgggccatgc tgggcgcgct cggtgcgctc ttcccggagc 420
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<210> 34119
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-012-Q1-K1-A9

<400> 34119

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 gaaac 425

<210> 34120
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-012-Q1-K1-B1

<400> 34120

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 ggcgtacaag gcaacagggg ttctatattg tcattaccag gcggggatgt tcctcctggt 180
 ggtgagttca tccaggctgc agctcttggt agccaaccag ctctttactc taacgaactg 240
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 ccaaatggg cccaactatt tgagccttgg gtgaagcatg caacttggtg tggcatanga 360

atacagatcc tgcaacagtt tgctggcatc aacggcggtc tctactaca 409

<210> 34121
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B10

<400> 34121

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cacatatcgg gcatatcatg ttgcaagaga aggctctgaa catcacagct cggcgacagg 180
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aactgtacta cgtcggtcga cattgcttcg aactaaatgc gccgcgcgca gcttcagaga 360
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<210> 34122
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B11

<400> 34122

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acacatcatt cacattgctg cactatcaac ttctgacagc tggattggta cctaacatgg 180
cgtaacgat cgac 194

<210> 34123
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B12

<400> 34123

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cagggacttg ttcgagggga tccagtccat gacctactgc tgcggtaact tcggtgatga 120
caaggggtgcc agggccattg tcaaagcctt cccacacata aaatgcactg tgctggcccc 180
tcccaagatc attgccacca aaccggccga tggagcgaag ataaactatg tcgaaggatga 240
catgttcagt ttcattccac ctgctcaaac tgctgtgcta aagcttgtgc tgcaccacct 300
gaccgatgag gagtgcgtca agctcctggc tcaatgccgg aaggcgattc ctccacggaa 360
ggacggcggg aaagttataa tcggtgatat tatgattgac cactctgggc ttatgc 416

<210> 34124

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B2

<400> 34124

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aggaagaaca cataaattgg gcagaatgaa agagtctcta gagttaacttt acttgcattg 120
acgatggcct acattgtaca tacgggttct ctattgtaat taccctgcgg ggatatttat 180
aatgctggta agggaatata ctttgcagat ctggtgtgat aaccatgtct ttactatcac 240
gtactgctgg atcaacttgc tgctaatact gcgataatgc atccatctgt aaaaagtact 300
aaaagtccaa gagggaaagg cctatacgat cctcgggtga attatgctct gcaggttggg 360
atatgactac aaatgctaca gcttcacttt gtaattaaca acgttctcta ctatactcct 420
caaactc 427

<210> 34125

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B3

<400> 34125

cccactcgtc cgcccacgcg tactcccact cgttcgaaaa aaacataaaa attaaacaag 60
tagatataac taaaatgatc aaaaataaaa atactttaca acaaattaaa cttcaattaa 120

aaatcttaca at

132

<210> 34126

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B4

<400> 34126

cccacgcgtc cgcccacgcg tccgaagata gtcgagaagc tcttcgagat ggaccctgag 60
tacgcagtgc ttgcgtttgc tgacatgatg aggaagaaga tcacgatgcc agcccatctc 120
atgtacgacg gtaaggacga caacctgttc gagcacttca gcgcggtggc gcagaggctg 180
ggcgtctaca ccgcaaaga ctacgccgac atcctcgagt tcttgggtcca gaggtggaaa 240
gtcgcggagc tcacagggct gtctggagaa gggagaaggc cgcaggactt tgtctgtacc 300
ttggcgccga ggatcaggcg gctggatgat agagctcaag cgagggcgaa gcaagcaccg 360
gttattcctt tcagttgggt ttatgaccgc aaggtgcagc tttaatcaag aacgctaggc 420
aatgtgggca tttactacgt atatcatttt cagt 454

<210> 34127

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B5

<400> 34127

gaggaactca tcatgaatcc actaattggt ggtggtttcg gtattggtgg ttgaatgggc 60
ctaaggcttg gtttcaatgg gcccggaatt ggtcaaggga ctggtgcaag acaagctgga 120
aaaaggattg gcagaccacc cgaagcagaa agtaaaataa gaagtacttt attgcttaga 180
ctaactttta tagaaactct aacaatttat ggactcgggtg tggcactagc gcttttatat 240
gcgaaccctt ttgtgtaatc ct 262

<210> 34128

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B9

<400> 34128

accactcat cctccactc gtcctaaaaa aaaaaaaaaa tttattaaaa aaaaaaaaaa 60
aaaaaaaaa aagaaagaat taaaacaaaa gaaagaaaaa ccaaaaaaaaa aaaaaataa 120
atattttata caaaaaaaaa atgccccccc ttttaaaatt cccaactttc ctacccttc 180
ttttcaactt catacttttt ctatactccc ccctaaatca atttcaactc cccctttttt 240
cccccatct aaactttaaa accc 264

<210> 34129

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A11

<400> 34129

ggcattgctc agttttcagc cccaatttct ccaccatagt ctgactgaca aaagtagggg 60
aggtaccata atctaccagg atgagcatca cctgattctg aatcagagct cttactctca 120
tgcaacactc atggtctggt ccaactgatgg catttaacga cagattgtgg gactcctctc 180
ggttctgggc ctcttggtcc agatcataca acacctcatc cgacaacatc tgccccatat 240
cttccacagt taaactatgt aactgaggac ctgttctctt ggaacatttg gcctgatgtc 300
caggttcata cttctctcca caccctaaac ataaccatt catcctccta aaatccctca 360
actgcctctt cttc 374

<210> 34130

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C1

<400> 34130

cgaaagaagt cgcctaattc tttcgatcga attaggcgcc ttcttcgtcc cagctccgg 60
ctgtatttgt aatctgaagc ttacaggaac atttgagtgg atcatggacg gattggtagg 120
cctcttgaaa gtccgggtgg tgaggggcat caaccttgcc taccgagacg caagaggcag 180

cgatccgtat gtcgtcctac gacttggcaa gaagaaactt aagacgagcg tgaagaagag 240
atctgtgaac cccatctggc acgaggagct aactctgacc gtcacagatc ccagcctagc 300
tctgaagctg gaggtgttcg acaaggacac gttcagcagg gacgacccga tgggggacgc 360
ggagatcgac gtggcgccgc tgggtggaggg ggcgaacgcg agcccggagg cgagcctgag 420
gaacggcgcc atcatcctgt cggtgc 446

<210> 34131

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C10

<400> 34131

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ggcaccgtta gaccgtcctg acgatactca gctatctagc tatggcccag actggttgagc 120
tcaacgatgc tacgatctgt aacgtcttta tgcgagctat caaacctgtc catgacgaga 180
tgagacgctt catcttctac atacgtatac atcatgaacc agatggctac cgtgaatgtc 240
attgatactc cttacgtcct actggttgact tgattcaaga ctgggttaaaa tacttccttc 300
tctaagggtg acgtcgatac aagtgaat 328

<210> 34132

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F4

<400> 34132

cgcacactgg catccacccg tcaccccacg cattcgatcc gaggtggtgc catacagagc 60
gagcgagaac ctcgcgacga cgaangccng cggcgaggte gagactgagc ctaccggggc 120
acttgccgtg ctcaagggct tcaaggacct gcctcccggg atgccgtccg tgctcctcgt 180
gactgccatc acctggctct cgtgggtccc gttcactctc tacgacaccg actggatggg 240
ccgggagatc taccacggcg accccaaggg gagcaacgcc cagatctcgg cgttcaacga 300
acgtgtccga gtccgcgcgt tcgggctgct actcaactcg gttattctag gggtcagctc 360

gttcttgatc gagcccatgt gccggaag

388

<210> 34133

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F5

<400> 34133

caaatcaata ctaaacctac cattccactt tcctttctca nattcttcaa atacctacct 60

ccacctattc cttccaatct cctcttaact gccatcacct ctctctcttg attcccatc 120

atcctctacc acacctactt tattttctct ttagatctac cactactacc ccaattttac 180

caacgcccat atctcgtctt tcaactaaac tattccaatc cccactttca tacttctact 240

caactccctt attctatcat tcaactctct tccttattaa acccattttc ctcaaatt 297

<210> 34134

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F6

<400> 34134

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atgtcacacg gacactactc tacactacag ggatatgtta gtattttctt tttatatgta 120

ttttttttgt ggtgctcttg atttgaggat ctcggtataa ctgtaaccac acgcactggc 180

tacggttgct tctgcttcac aatcgctggc gacggttgga ttctttggat gttatagatc 240

<210> 34135

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F7

<400> 34135

aacccaccgc aacccacgag agacnngaaa atttttncat cctcacttta ntactacatc 60

aancnnanttt ccttcggctc gtttatttta aacagacgct actctacact acanntatat 120
 nttanaattht cttttttata tctattttttt ttcacctact ctttatttga cgatctnctt 180
 ataactgtaa ccacactcac tcattactttt ttcttctgct tcacaatcac tctcaacctt 240
 tccattctttt tcatcttata gatcatacaa aatatctact atttctttta tatatactttt 300
 atccatacta tcaacattat aataaattttt ttccatt 337

<210> 34136
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-F9

<400> 34136
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 gggctaaata caggcgagag accgatagcg aacaagtacc gcgagggaaa gatgaaaagg 120
 actttgaaaa gagagtcaaa gagtgcttga aattgccggg agggaagcgg atgggggctg 180
 gcgacgcgca ccggccgtat gcggaacggc tcctgctggt ccgccgatcg gctcggggcg 240
 tggaccgttg tcgcccgcgc cggcggccaa agcccggggg ccctaggcgc ccccggcagc 300
 cgtcgtcggc gcggacggtt tccgcgcgcc tctggcgcgc cctcggggc gctgcgcgc 360
 aa 362

<210> 34137
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-G11

<400> 34137
 agagaagtaa taattcggat ttaattttac cttttaatgt acataaaaaac ggctatgtta 60
 ttattctaata ggcggccagg caccctaaaa aacnnttacc acatccaant aaggcaccat 120
 gctcgcaaata tacccaatcc ttacactggt atgtacttac aataaataac aataccgctc 180
 gcattagtgt ctggttaattg gaatgaatac aatctaaatc ccttaaccag gatccattat 240

attgcaattc ttgttccagc aaccgccgta attccaactc caataacgta tattttaagtt 300
 tttgcaat 308

<210> 34138
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-G12

<400> 34138

cccggtcgac ccagcgtgcg ctaaactcct gcgtcgcatc accgagccga gcccggcaca 60
 aacactactg gcgcgcacgc acgcaggagg accagcacca caccacatgc atggtggagc 120
 ctagcacggg cagctagctc ccggccggcg acgtgacgac caccaccacc acatgttgca 180
 tgagcagcag gcaccgccac cggcagtagc agcggccaccg ccatccatca accccgacga 240
 cgacggcgcc cgcgatgtcg aggtcaccac gttccgcgac atccaccctc tgacgcccga 300
 cgcgccgccc ccgccttcg cgtnctggga caccgccagc caccgctcct tgtcgtcgctc 360
 cgacgaccag cagtacatga 380

<210> 34139
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-G4

<400> 34139

ccgacacgta cgcccacgcg tacgcctacg cgtccgcgcc aaggaggtgc cgtacagggc 60
 gagcganaac ctcccgacga cgaacgccnn ctgcaaggte gagactgagc ctaccggggc 120
 acttgccgtg ctcaagggct tcaaggacct gcctcccggg atgccgtccg tgctcctcgt 180
 gactgccatc acctggctct cgtggttccc gttcctcctc tacgacaccg actggatggg 240
 ccgggagatc taccacggcg accccaaggg gagcaacgcc cagatctcgg cgttcaacga 300
 aggtgtccga gtcgggcgct tcgggctgct actcaactcg gttattctag gggtcagctc 360
 gttcctgatc g 371

<210> 34140
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-G6

 <400> 34140

 acgcgcgcac gcgtacgtcc acgcgttcga ttacgcgttc gaaaaaaaaa aaaaaaaaaa 60
 aggaaagggtt aaaaaaaaaag gaggtataaa aaaaaaaaaa aaaaaaaaaa aaaaaatgaa 120
 aaggaaaaaa tatatatatt gtgagagata aaaaaataa atatgtaaat ttatataaaa 180
 tgaaatgtgt gataaaaata atatTTTTat taaataaatt tttttgggtg atatTTT 237

<210> 34141
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-G9

 <400> 34141

 ggcggtttcc tgttctgggc tgagccatcc acctgtttcc tacatttcgt tgtagcggtg 60
 gaatttaagg ggctaggaaa ttgaactaag agtttggtac tgtgaactaa gagtttggtg 120
 ctgtttcgtg ggagtgtgac ttcactccaa tatttgatat ctatctgtga cacttgctat 180

<210> 34142
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-H10

 <400> 34142

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 accttctgat cgtnacccat ggccactgcc gaagtccaaa ccccgatnaa ctgnatttac 120
 cgtcacagga tcaatcactt ccattccattg aacctattta atatctcccc aagaggctgt 180
 ccccaactcc aaagcctatg aatcagcaca atcttgccaa caa 223

<210> 34143
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-H11

 <400> 34143

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 ccaccaaggg cttcatccaa gctgacagac atggagatag atgaatgcga ggagacgact 120
 atgcatgatg tgaacaacat cgaggaagag atgctgcagga agcaagctca cgctgcccag 180
 gaggcgtacg aggaggacga cgagatgccg ggctggagccc agagagtgca gtgcgcgcaa 240
 cagtaagcag actatcatca aggcaattgg gaggggtggt gcccttaaag cgtgggagtg 300
 atctctggtt ttgctgtcgc cgagctggga aataagaagc tgaatcgacc tcttaagcgg 360
 ggaatgtatc cttttttgct gcaacat 387

<210> 34144
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-H12

 <400> 34144

 gaagaacctg gaagagagga gcttgatgag ttgaggagat ggctgagcgcc gagggcgaga 60
 ggtgggtggg actggcgacg gacttctcgc aggggagccg agcggcgctg cagtgggagg 120
 cgaccaacct gctccgcgcc ggtgaccacc tgctgtctgt gcacgtcatc aaggagcccg 180
 actacgagca gagcgaggcc atcctctggg aatccaccgg ctccccgttg attcctctct 240
 cggaattctc tgaccctatc atcgcaaga aatatggagc aaaacccgac atggaaacct 300
 tggacctcct gaacactaca gctaccaga aggaaattat g 341

<210> 34145
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-H3

<400> 34145

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agtcagtacc agcagcaaag ttgaatgttt ggtaatttgg tgggagaagc ctggagagta 120

cgtgttgat gagcaacaac agcagaaacg acttttgctt caacaacacc aacaagatct 180

ctatacatca actgcattca ccgccacagg atcaatcact tccatccatg gaacctattc 240

aatagcttcc ctaggcagaa agacaaacac aaatgaatat gaaacaacag attctggcaa 300

acaattgtag cttggctgga ggcgggcac agcggcgact tcccactcga ttcgctgtat 360

aataaatact atgagaggat actg 384

<210> 34146

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H4

<400> 34146

acgcgcacgc gtaaaactccc tcgtccgcat tcaccgagcc gagcccgcca catacactac 60

ggggggggcac gcacgcacca ggaccagcac cacaccacat gcatgggtgga acctatcacg 120

ggcagctggc tcccgaccaa catacattac aaccacctat tgcttcaaca acaccaacga 180

gatcccctta cctcaactgc atttaagcca ccgccatcca tcaacctcct ccacgacaac 240

tactcgcaat gtctaggtaa ccacgttcgg cgacatccac cctttgacac ccg 293

<210> 34147

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-H5

<400> 34147

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gatcattctt tagctgctct agctctagcc tctagcccta gctagtagct agccactcgg 120

togtgtagtc atcagccttc tgatcgtcac ccatggccac tgccgaggtc cagaccccga 180

ccgtcgtggc gaccgaggaa gcgcgggtgg tggagacccc ggctccgccc gccgtcgtgc 240

ccgaggaggc tgcccccgcc gccgaggcca aggtggagga gccagctgcc ccggcggaga 300
ccgagccagc tgccgcccgt gagcccgagg cggcccccggt ggcg 344

<210> 34148
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-F10

<400> 34148

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cgcgcgctgg agtgggtggc ggcctccggc ggggaccctt ggctgtcgcg ccatggcgac 120
ctgcgccgctg tcttctctggc cggcgacagc gccggcggca acatcgtcca caacgtcgcc 180
atgatggccg ccgcgtcggg gccgcgggtc gagggcgccg tcctcctgca cgccgggttc 240
gggggcaagg agcccgtcca cggcgaggcg ccggcgctctg tggcgctgat ggagaggctc 300
tggggcgctg tgtgccccgg ggcgacggac ggcgtggacg acccgcggtt gaatccct 358

<210> 34149
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-H6

<400> 34149

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tccggaaaga gagagagaan acaagcaatg gcgacagcag ggaaggtgat caagtgcaga 120
gccgccgtgg cgtgggaagc cggcaaaccg ctgtccatcg aggaagtgga agtagcgccg 180
ccgcaggcca tggaggtt 198

<210> 34150
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-H9

<400> 34150

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aagccttgct ctggcttcct tacgggttat tacttcctta gtagctcaac atatgtactc 120

tttacctgct tatgcattca tagcacaaga ctttactact caagctgctt tatataactca 180

tcaccaatac attgcagggt tcatcatgac aggggctttt gtcacatggag ctatTTTTTT 240

cattagggat tacaatccgg aacagaatga agataatgta ttggcaagaa tgtttagacca 300

taaggaagct atcatatctc atttaagttg ggctagcctc ttcctaggat tccatacctt 360

gggcctttat gttcataacg acgttatgct tgcttt 396

<210> 34151

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-A1

<400> 34151

cctgatgcaa gattggagag tgaattgtga tgcccagctt cgtattctgg tcttgtagcg 60

ttagtggaag aaaaggacaa tcaaatgcag aagatagaga aagaaattaa ggaactaaag 120

gtatggcgtg atttcgtagg ccgagttcct catggacatc gtcagcaacg aagagatggc 180

gtcatcgac accgctagga gaagaaactt atcagtgatg ggtctttata accaaacaat 240

tttatgagct taaaatgact ttcttagcct cttttatact tagcacatgc 290

<210> 34152

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B6

<400> 34152

cggacgcgtg gggtcgccgc cgctgccctg ctagccctgg tcctggccgc gtcgaccgcg 60

gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga tgcggtggtg 120

cagccgcaga cttccccgcc cttcgaccgc ctcggcggcg gcgcgtcccc ggcgtccggt 180

ggcctccccg gcacctcgtc gggcggcagc agcattccag cgttcagcat gccgggcagc 240

ggcagcagcc tccccggcgg gtcggttcttg cccggcagca gcggcagcat cggcagcatg 300
 cccctcttca gcggcggctc cccggccttc agcggcttcg gcggcatgcc cgggtccccc 360

<210> 34153
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B7

<400> 34153

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 acataactac ctttcaggtg ctacaacctt ccatactgtc aaccagaga tggcgtaaaa 120
 aagagttctg aaaacttatg cttgcttctt attgttgatc aaataaataa ttcttcctac 180
 cggt 184

<210> 34154
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-B8

<400> 34154

gcgaggaggac tcgcacagat cggtgagcga gcaagcgaga gatggctggg aggcgaacgg 60
 cggcaaggtc ccgcattctg ggccggcngcn gccacgcgc gcgggcttcc gccctccgac 120
 accgcgccgg catgggcctc cccgtcggcc gccacatcgt ccccgacaag cccctccccg 180
 tgaacgacga gttggtatgg gataacggca cgccttctcc ggaaccctgc atcgaccgcc 240
 ttgccccgca catcggcaag tacgaggcgt tggcgtggct gtgcggaggg ctagggttct 300
 tcgctgccct cggtatggct gctggtgtga acgacaaggc ctccaatata ccatatactc 360
 ccaaa 365

<210> 34155
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B9

<400> 34155

gcgactcggc aaagaaaaga ggcaacgact atggctgctg cggcggcgat gatgggctgc 60
ggaggacggg cggcgtctggc ggtggcggcc gtgctctgcg cggcggcggc catggcggcg 120
gcgcagcagg cgtcgaacgt gcgggcgacg taccacctgt acaaccggc gcagaacggg 180
tgggacctga accgcgtgag cgcgtactgc gccacgtggg acgccgacaa gccgctgtcg 240
tggcggcaga agcacggctg gacggccttc tgcgggcccc cgggcagaa gggccaggcc 300
gcctgcggca agtgcataag ggtgaagaac cgtgcgacgg gcgcgtccat cgtggcgagg 360
atc 363

<210> 34156

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-C10

<400> 34156

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ctacccttac aatctctcct acaagctact ctacattccc tccaatatca tcaaacacat 120
ccacatcttc ta 132

<210> 34157

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-C11

<400> 34157

cggacgcgtg ggcccgatca gcagctgacg gctcactctt gcagctcgat cgttctgtag 60
ctgctctagc tctagcctct anccctagct agtagctagc cactcggctc tgtagtcac 120
agccttctga tcgtcaccca tggccactgc cgaggtccag accccgaccg tcgtggcgac 180
cgaggaagcg ccggtggtgg agaccccgcc tccgcccggc gtcgtgcccg aggaggctgc 240
ccccgccgcc gaggccaagg tggaggagcc agctgccccg gcggagaccg agccagctgc 300

cgccgctgag cccgaggcgg cccccgtggc ggcggaggaa gagacgcaa aggaggaaga 360
gacggcaaag gaggcggagc cggagccgg 389

<210> 34158
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-C12

<400> 34158

cctcactctt cacacnaegc ccgttttttt aaagcttgcc cgccacccaa ctaataactaa 60
ccactcttcc tctatcatca accttctaata ctecccatgc cacttcctat ctccataccc 120
taccttcate ctacctataa tctccattat atatacccca tctccaccca ccctcctccc 180
tattatcttc ccccatctcc tactcca 207

<210> 34159
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-C3

<400> 34159

gcgctgggtg acttaaact acctaaccac cgggattccg aaccatccc cttcaaaggc 60
ccaacggggc ggaagagtac aaggaacttg ggaacaaaaa cctgtgcacc gtatacacc 120
agcanatact tagcggcaag ggcgccgagt cgttctctgg cgagaagtac tgcaccgaca 180
tcgggtcaag cagcagcagc atgggttcgc tggagcggat ggcgcacact gccgtgcacg 240
tctgggtcgg caag 254

<210> 34160
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-C5

<400> 34160

gtgccattcc cctcccgtg tggaggttct gttagcccg tagaaaatat gactgtggat 60

cgcttttgtg cctctgccct tctgtttttg ggccccaagg acctatattt tgcttgaaat 120

gatactacca tagcttttcc tgcccgaagt gctatgtggt gtttctgtgc gtttggtgac 180

aatgatagga cgggatgaga tgagaccctc aaattaggtt gtttggttct ggtcaaaga 240

ttgagacaag aatattctag tattgtttta aaaaaaaaaa aacaaannca aactaaaaaa 300

aaactcaac 309

<210> 34161

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-C6

<400> 34161

cgcacgcgtn cgcacgaaag tacacttaat ctatgcaaat gtcacgtatg angatatgct 60

tgtganagaa gaacttgacg gcatggccaa aaactatccc gatcgtttca agatctacta 120

tgtcttgaat cagcctcctg aagtctggga cgggtggcgtc gggttcgtgt cgaaggaacg 180

atccagactc attgcccagc gctgcccgc gacattcagg tattgcatg tggacctcct 240

ccatgaacaa agccatggcc gcgcacctgg acggccttgg ctacacgaag gagatgcagt 300

ttcagttcta agcgttgcac tctctctacc agtaccagaa taaacggcgg tggaacaaaag 360

ttctaagctc caaacagacg ctcttttcta cc 392

<210> 34162

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-C8

<400> 34162

tgtctttctt gggacgatat ggatgccgcc gcggtttcgt cgttgctgtg cgcacggtgg 60

gtccgcgccg cggccagaga aggtgagtt ctgcatcgac gacatcgacc tggacgagaa 120

gagcaacaag gtgaaggtga cggggccctt cgaccgggac aagctcgccg acaagctgtg 180

ctgcaaggcg tgcaagatca tcaagcagat cgagatcgtg gagccgccgc cggagaagcc 240
 caagaaggag gaacccgccc cgccgccgtc gaagaagaag gaggagccgc ccccgccgcc 300
 gccggcgaag gtcgagccgc agaagcctcc gccaccgaag gagaagcccc cgccaccagc 360
 accgaaggag gagccaaagc 380

<210> 34163
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-D10
 <400> 34163

cccactcttc ctaaaaaaaaa attatatatta aaaaaaaaaa aaaaaaaaaa aaaagaaaag 60
 ttttatatta aaaagaagga aataacaaaa aaaaaaaaaa ggtcgggtcaa tctaaaaata 120
 tcctaactta catacacata catcaaacc ctaactctc ctataaacc ccccaaactt 180
 caatcatatc cccccatttt atcatcctgc tcccttgcta aacctaccct tttccccact 240
 taatctactt gcaccacatc cctattccc catccttctt aataccaaaa agcccccttac 300
 ttattccccc ttccc 315

<210> 34164
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-D12
 <400> 34164

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 ctcgcgtggc ctgcctcgac caccagcgat cgctgctcac cgtcggcaac agccacctca 120
 agcaacgaat cgcggcgctc gcccaagaca agatcttcaa ggatgctcat caagaggcgc 180
 tgaagaagga gatcgagcgg ctacgccatg tgtaccagca gcagcagatg aaggtggcca 240
 ccaccggcgg cgccgacatc gccgcggcgg cttccatgca ggccaagcaa gagctgctcg 300
 cgtgcgaggg cgctgccatt cgatagcgga tcgagggcgg aggcgttcaa ctggcagtgc 360
 cacaacaaca acaccagcac cgaactt 387

<210> 34165
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-D5

 <400> 34165

 cttggaaaaa aaaaaaaaaat tataattata aaaaaaaaaa aaaaaaaaaa agggacgttt 60
 aattaaaaaa aaaagaaggc ccacacccta caaaaatcaa aaaatatctt caccttaaata 120
 acccaaaaaa aaaatctgcc ctcccctcat aaaaaaaca atttaatttc cccttctttc 180
 caaaattaaa ctttttaaaa cccccccca aaacaaaata aactccccgc tttaaaaaac 240
 cttttcccca aaaaaaacct ctttttaaca aatttaaatac ttttaacaaa aaatcccttt 300
 ttcacaattt cataaaaaaa aaaaaacccc ccca 334

<210> 34166
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-D7

 <400> 34166

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 ctagctccat ccaagattct gggcaccaag ctcaacttcg ccggctcctc ccgctacgcc 120
 accgcagcgc ccaccgcggg ggctcagaag atcgtctccc tcttcagcaa gaagcctgcc 180
 cagaagccca agccctctgc ggtgtcgtcc tcttctccag acatcagcga cgagctcgcc 240
 aagtggtagc gtcttgacag gaggatctac ctgccggatg ggctcttgga ccgctcggag 300
 gtaccggagt acctcaccgg agagggtccct ggagactatg gctacgacct ttttggcctg 360
 ggcaaga 367

<210> 34167
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-D8

<400> 34167

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gggcctgctg gaggtgctgc anaaggaggc cggcgggcggc aaggcggcgc tggcgcccga 120
ggaggtggtg gcgcggatgc ccgcggcgcc cggcgacccc gccgccgcgg cggccatggt 180
ggaccgcatg ctccgcctgc tcgcctccta cgacgtcgtc cggtgccaga tggaggaccg 240
ggacggccgg tacgagcgcc gctactccgc cgcgcccgtc tgcaagtggc tcacccccaa 300
cgaggacggc gtgtccatgg ccgccctcgc gtcctgaac caggacaagg tcctcatgga 360
gagctggtac tacc 374

<210> 34168

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E10

<400> 34168

cccacgcgtc cgcccacgcg ttcggtttct ctctgtggga aattggttgc ttgcggcgac 60
tataagaatg agggcggtg ggttgatttc gactgcacca accctcgcaa acgaagcagg 120
attccttct tctgcgacg agcgttgccg aaccaacttc tgtaaatact ggctactgtg 180
agactggcta tgcttgttct tattacagac gtgctattcc gcgtctgaat tctgaaactg 240
ccatggaacc ctctataat cgtcgtgta atcgtgtgga gggatgtaac tacgaggtag 300
taaaaaagcg gttacaggac aggaaatagt ggaaaggtag ataagcatag atagtatata 360
gtcaaaagag gtcattgttg ctatgttgta gagatctctc acttttta 408

<210> 34169

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B5

<400> 34169

gcgtccgcgc tagcgtgtgc gtggcgacca gatgtggcgg aggcgagtgg gcgccctcct 60

tctggcgagt ccacgaactt cttcctgggc ctctcgtcc tgccagagcc gccgccacca 120
tcttctcccc agcgaggaac ctcttgtct caaccgtctt gccaggctct tcacgtccca 180
ggctggaagt gatgggtggcg ataccagaa gccctttatt gcttttgtct taggtgggtcc 240
tgggagtggc aaaggaacac agtgactaa gattgcttcg gattttggat ttgcccattct 300
gagcgtcgtt gatattctcc gacatgaaat agcatctggc agcgagaaag gggagttagt 360
cctagaaatc ataaaagaag ggaggattgt tccgtctg 398

<210> 34170

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-E12

<400> 34170

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gagcgagacg gagcgaggct ttgccgtgc agagcagagc gacatgagct accggcttgg 120
aggcgcggcg gaccgcgagg agggggacga ggagctgttc gagacggcgc cgtccgtctc 180
cggcggcgag ggctcgtgcg accaggagcg ccgcgcgttc gtgccgccgc tgcggaggat 240
gaactcggac agcatctacg acatggcgtc catggtgtcg cagcagctcc cagccaagaa 300
agggtatcgc cgggtactacg agggcaagtc gcagtcgttc gcgtgcatgt c 351

<210> 34171

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-F1

<400> 34171

aagaaaaaaaa aaaaaaaaaa aattaaataa aaaaaaaaaa aaaaaaaaaa aaaggaagga 60
aaaaaaaaaa aaaaggaagg aaaaaaaaaa gggccgcccc ttttaaagaa ccaaac 116

<210> 34172

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H3

<400> 34172

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taatggcgca tgatgatccg gttgtttctg ctcatgggt gcacgagcac ctaggaatgc 120
ctgatgttaa ggttttggat gtttcctggg acatgccggg agagaacagg gatccatgga 180
aagaatatca ggtggcacac ataccgggtg cgctattctt cgacttagat ggcatagttg 240
atcggacaac tgatttacca cacatgctgc catcagaaga ggcttttgca gcagcaattt 300
ctgagctgga tataaaaaac caggataaag ttattgtcta tgatggaaag ggattcttca 360
gtgcgcctcg tgtttggggg atgttttagag cgtttgggca caagacagtc tgggtac 417

<210> 34173

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-H4

<400> 34173

taccggcttg gacgaccac gcggacgcac tcgacgtcc agctgaccgt gtgctcgcac 60
ctttttctct tcccacacg tgcccaggc ctcgcgtcc cgcctctcc ggggaccgct 120
gcggcgcttg acgcgacgca ggaggaggag gaggaccagg agtgggaggc tgcgctgcag 180
aagtggaaga ccaagaccta cgcgtctcg gtgcccctcc gggtcgtcgc gtcgcgggc 240
tccttccctc catcttggat taaggatttc gtcgaagctc aggggaagag actcaaattc 300
agtcctgaac tccgtgctaa tcttgatggg atcctctctg agatgtcaca atgtatggac 360
aagggtcaag atcagccgaa gtctgcaatg gcagctcatg ttgnttcctt tgcngactac 420
tggtcgggt atgcat 437

<210> 34174

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H5

<400> 34174

tcccactcgt cctaaaaata aatatataat ataaaaaaaa aaaataaaaa aaaggaaaaa 60

atgaaaaata ttaaaaaata gaaataataa aaaaataaaa aaaaaaacta aaaataaaat 120

aataataata ttttacataa tataacttata catacaagta aaacaacaat gatccatgta 180

tttattatta cgttcataca cttcatctat gtactcttct atatattaca tgtaataatt 240

catccgacaa ttaatttact acaca 265

<210> 34175

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H6

<400> 34175

accggtctcg gcaagtccca cgcggaacca cgcgtcctgt aaactgatgt tttcatggag 60

aaatcaaccc cgacagtga gtttgagagg cagctttgca aaacgaggga tgagaggtac 120

cttcttgacc tgcaaagggt cagtggatca catcttctct ttctggactt gtgttccgcc 180

tttctaactc agctgagagt tctttgagcc tgacatgatt ggcttcccaa gcaactccttg 240

atgcacccag tggagtttca agttacattt gagatgtaca taatgaccat atataatcct 300

ccagtagatt atattttctg gagcatgtaa tgtagacgtt agaggcttgt cctgggttgc 360

caagatggtt gttacctaag gtcctaacaa gaggccgcag gcgagcccag tccaattaga 420

tgatgtgaaa aatttttggc ctttttttag tctttggaca tgttatcaaa t 471

<210> 34176

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H7

<400> 34176

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gctgacgggc ccgatcccg gcgacgacgc gcgacgacgc atcaacaccg tggacctctc 120

ccacaacaag ctgacgggag acccctccca cctgttcgcc gccggccggc ccatcggcaa 180

ggtggacctg tcgtggaact acctcgactt cgacctgagc cagctggtgt tcccgccgga 240
 gatgacgtac ctggacctgt cccacaacct catccggggc accgtgccgc tgtcgctgga 300
 gcggtgttcc acgctgcaga agctggacct gagctacaac cgcctgtgcg ggccgctccc 360
 caagggacac ggcgtcatca agcacgggtg caagccgtac gcgcacaacc agtgccgcaa 420
 agggaccccc ctgcggg 437

<210> 34177
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-H9
 <400> 34177

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 gcgccggcgc gtctccgacg gggtagctgc ctctggcacc acctggtctc ccgccgcaa 120
 tgactccgaa gacagcttcg acggctgggtg gtttcccgag tacgagaagc atatgaaaca 180
 ggggaggagg aggatagggg ttcagagcgc tgtcgtgggt gagttgggag cgtctgctgc 240
 gatcgcgatt gctgggctgg cgtggcgctt cccatcctcc aggaagcata tacaacaact 300
 cattgttgca ccattacact atgttcaaga taaattgtca acaatggagt cgacagagat 360
 aatcaaggca gatgcaagt agaggggaatc tgatgaaatc caagtttcta gcgcaacaca 420
 tgataagata gctgaagcaa taactgacga ttca 454

<210> 34178
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-A11
 <400> 34178

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 actcattaat gtaatggaga gtgttattga aattgaactt gcacacatac gcatacacac 120
 agacatggga acacaatatg ctagattcta ttctaaaaac cttattgaac acattaaact 180
 acacatcaca cgtttcaaca tacctaagat tattcctact cttaatcaac ctcatcacta 240

acaagaactc tcctaactac tcatacacct tgacatacat gacaatgcat ccgacaatat 300
 tatcaaccat attataaatg catctgaaca tacacaggat catgatcagt gcaatgaagt 360
 ttccaatg 368

<210> 34179

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-A2

<400> 34179

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 gaaaaagcgg gtaaaagaag acgctcaaca acttgctcga gtttttgaaa ccattggcgc 120
 tttcaaactc cctcgcaaag gtggaaaagg aaaacagatc tttgggagtg tcacggcaca 180
 ggatgttggt gacataataa agtcacaact taatagggat gtcgacaaga agctggtgac 240
 ggttccagaa atccgtgaaa tcggagagta tgttgcagag atcaagct 288

<210> 34180

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-011-Q1-K1-A3

<400> 34180

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 gcttgcaagt tgctcttgcg gtagttcccc caactgtcac catgcagaac gaggagggtg 120
 agactgtgga cctctatggt cccaggaagt gctcggccac aaacaggatc atcactgcca 180
 aggaccatgc ctctgtccag atcaacattg gccacttgga tgccaatggc ctgtatgatg 240
 gtcacttcac aacatttgct ctctctgggt ttgtccgtgc tcagggcgat gcagacagct 300
 ccttggacag gctgtggcag aagaagaagg ctgatatcaa gcagtagatt ttacatctag 360
 tttaaccaaga attggacact gccttagcta tgttttgaat tcatgtc 407

<210> 34181

<211> 292

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-A4

 <400> 34181

 ttattacttc cttaataact caacatatgt actctttacc tgcttatgca ttcatagcac 60
 aaaactttac tactcaaact gctttatata ctcatcacca atacattgca gggttcatca 120
 ttacaattcc tattgctcat ggaactatTT ttttcattat cgattacaat cccgaacata 180
 atgaaaataa tctaattgca acaatgttaa accataacga aactatcata tctcatttaa 240
 gtttggtctaa cctcttttcta atattccata cctttttacct ttatattcat aa 292

<210> 34182
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-011-Q1-K1-A6

 <400> 34182

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 cgctacaaga acccatgggt agagttgaaa attcagtacg gccaaaataa agggaagttc 120
 tataacgagg aatgtgaccg ctttatgctt tgcattggtgc acaaacttgg atatggaaac 180
 tgggatgaac tgaaagctgc cttccgtatg tctcccttgt ttcgatttga ttggtttgtg 240
 aagtcacaga ctaccaaga gttggctagg cgggtgtgata cccttatccg actggttgag 300
 aaagaaaatc aagaatatga tgagcaagag aggcaagcaa ggaaggagaa aaggcttgct 360
 aagaacatga ctccaacaaa gcgagc 386

<210> 34183
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-011-Q1-K1-A7

 <400> 34183

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gccgtgctgg tcgtggcact gctgctgaca acctcggaga ccaccatcaa ctgcggcctc 120
 acctgctccc acataaactc ctgcctctcg tactgcctct gctacaagcg cggcacctgc 180
 tcctgctgct gtaggtgctg ctggaacctc aagagcaacc tcaagagcgc cgccagcagg 240
 ggcgccgact ggaactgcct ctagaactgc ctcaagaacg tcagcagggt caacagcggc 300
 cacaacgcca gcaacgcctc caagatccgc gtcaagatcc gctacaacat ccgctactcc 360
 atcgactg 368

<210> 34184
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-B1

<400> 34184
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 ccgccccatg ctcggtctcg ctcccatccc atgtggaggg aagagaaggg tggggggagc 120
 tggctcgctg agttggtcgc tgcttcgttt gcttgtgctt tggcgccata tcgctgcgga 180
 gcgctgtacg tagccatttt tcgccgggga gggatcctca tcctcctcgt tggcttgcta 240
 cgtgttcctt gccgccatta cgaaacctta attgctcgct ttacacg 287

<210> 34185
 <211> 109
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-011-Q1-K1-B10

<400> 34185
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 cgtaaaaaat aaaaaaaggc cggacacaaa cttcccaccc ctttaaaat 109

<210> 34186
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-010-Q1-K1-H12

<400> 34186

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ggatccctct ccatggcgtg gatcagcccc agcttcccat ggatgtcgcc ctccctctccc 120

tgatggctgg cgtctccact ccctgcagca aggacgcttt cctctgctcc ctgctcttcc 180

tcccatggcc ccccatgtag cagtaaccat ggaaaccctt ctgggacgcg ccctcagcat 240

gctcaatgat atgctgcagc gagctccacc ttgatctatg ccaaccggc cgcanatcat 300

cgaaccttgg ggaacccttg ggaccgatgg tgaagaggtg aagcccatcc aacgtttgtt 360

aaatgttcga tagaaggttc gaaccanaag tcacggcgga tcttgtgat 409

<210> 34187

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B11

<400> 34187

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gatttatcta cgacgtcgat actgattaca gattgttttg tattgtattt tacgacaatt 120

ggattttatt tgtttctaca tttgtatatt gtttgtgaga tgagagaaac ctcttcaagg 180

cgttgaacca aacgtacttt tccaacatit catatatatc ttaataatta catit 235

<210> 34188

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-B12

<400> 34188

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ggtggctggg gagcccatgg tgggtggcgt ttctccggca aggacccaac caaggttgac 120

cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 180

cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240

gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300

aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360
gggcgcta 368

<210> 34189
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-011-Q1-K1-B2

<400> 34189

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gacgcacact aagcttcaga cccatttcct tctgcggact ccacatattt cagcaatgca 120
ccatgacgtt aacttctcgt aaaatntntg nggcognaaa atatgaagaa aacctagaga 180
ttacaggcac atacttgag gctcagaagc tggatgatga aatctgtgac attgtggcga 240
caagagcagc ccggctggct gctgcggggc ttgcaaggat cctcatgaag atcgggagag 300
atcac 305

<210> 34190
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-E9

<400> 34190

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ggtctgggcg ccgctgctc tcgtttctct tttcaataat caagatgagc cgtggtggta 120
gtgccggtgg tggatcaaagt tctctgggtt atctctttgg aagcgggtgag cccccaaac 180
cagcagtggc accagctgca agtgcctcac ctggtgagaa accatctgct gcaaagactg 240
atgcggccaa tcaggttgct gctgggggta ccagccaaac caataactac cacagggtg 300
atggtcagaa cactggcaac ttccttacgg accgtccttc aaccaaggct cacgctgctc 360
ctggcggtgg ctcttcctg ggctacctgt tcggtggcaa ctgatgcccg tgctggtgag 420
ctcaccaaag ttatcctncc ctgcctgctg cgtgctatgt ctga 464

<210> 34191
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-F12

 <400> 34191

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 aaggaaagag ataacaaaac tgtacaaaaa acccataaaa aactaaaaat taaaaatgta 120
 acaaaaggat catgactata atgctcaaaa aaaaagaaga accaaaaatc tttcacaaat 180
 ggctctgccc tacttagcaa acacttttat cgcattgtcc tcgtgcatta tcaggcaaac 240
 atcatgagga aactgcctta ccaccttctc atgtacaatc taaaatttca gaactgccta 300
 aactcaatat gaccattac acctcctcta cagatacatc ctcttttcat actgagctat 360
 cttcttatgc tgctcctgca ccataacata tccactcaaa t 401

<210> 34192
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-F2

 <400> 34192

 accacgcgtc cgaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaataaaa 60
 agaaaatttg ataataaag aaaaactgaa aaaaaaacia ataaattaaa tataatttaa 120
 aaaatacata aatataattt aacttaaaga aaaattaaac aaaatactat ttgaaaaaca 180
 aatataaatc aattacttta tttcaattta caata 215

<210> 34193
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-F3

 <400> 34193

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ggaatatgtg agcacgtcca tgtcaatacc aaacatctgg ccttttctct ctctcttttt 120
 tacatatgtt tatgtgggtct tagcaagtag ttgtgctcga ctttgcgtta tgaggatatgc 180
 cgtatgtgat tggatcacgg tgacctaaaca ggccattccc acacttgtgt ttttacatga 240
 cttttgagtg ggtgatgcac ggataatatt gacatgttgc gtgcacgctc aggtgggtgct 300
 ctttcacttg atggcgctcg cggttcgggtc aagataagtt ttttaaggttt tcctgttcc 359

<210> 34194

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F6

<400> 34194

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 gccaaagtca tagcagccgg gtcgactaca agacaggcaa gcgggtggag ccctggccct 120
 acgtgcccta cgagatgggt cagcaccctt acgcgccggg cgcctacgac aagaaggccc 180
 ccgccggcta cgtcgcgaac gtcgtctccg accccaccgt cgcgccgctc gccagggcct 240
 actccaccga ggtccgctac accgccgcct tcagcgacga gaacccaac gcctgctccg 300
 tcatgtagac gtagaccac ccacacaccg accgacccat gctattagtt actagtagta 360
 tagtaggtgc ttgcttgaga gagttgctct tggaggaggt tttgctcttc ctgattctct 420
 ttttcttttt tttc 434

<210> 34195

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F7

<400> 34195

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 taaacactta aatcgtggga tgacaaccag acacccaaaa ttctctgtgt ctccaacata 120
 tgaacgacac tgcattcccc atgtctgaca aca 153

<210> 34196
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-G10

 <400> 34196

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 gagactaggg cctcagtgat gacagaaaaa gatagcagtc aagcttctgc tgcacatcaagt 120
 cagccctttg cgggaactgt tttaagagca caaagtgtat ctcaggaagc ttcacctagc 180
 gtctttactt caaagcctct catagattct tcacttgtga aaaatacata tggttggttta 240
 agttcaggcg gtgcccatat tggacatcca aattttggta accagcaacc aagtgacgaa 300
 tgccttaaaa gaaaatctga atctctatct gggttcagaag caaggggtca ttcagctgca 360
 ttggtgcaac ctgctctagg aaatcataat gggagtgagg gtgcacacaa gggccttcgg 420
 atgggctaacg ttgtacatcg attcaagagc ttagttgaat cttt 464

<210> 34197
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-G11

 <400> 34197

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 gagacggggg cctcagtgat gacagagaaa gatagcactc aagcttctgc tgcacatcaaga 120
 catccctttg cggcaactgt tttaagagca caaagtgtat ctcatgaagc tacacctagc 180
 gtctttactt cagagtctct catagattct tcacttgtga caaatacata tggtgcgcta 240
 agttcaagac agagcccata ttggacatcc aaattttggt aaccatcaac caagtgacga 300
 atgccttaga cgaaaatctg aatctgtatc tgggtcataa gcactgcgtc attcagatgc 360
 attggtgcaa cctgctctac gaaatcataa tgggagtgga agtgacacaca atggccttcg 420
 gatggctaac gttgtacagc tattcaaga 449

<210> 34198
 <211> 466

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G12

<400> 34198

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gacaagcccg cagtcgtggg gaaagccact gccgttcccg gcgacgagaa gccacggcga 120
cgactgccgc ctggggccatg gacccttccg gtcatcggca gcatccacca cgtgggtgcgc 180
ggcctaggac accgcacat gatggagctg tcccgtcggc acggccccct catgttcctc 240
cgccttggcg aggtcccgac gctggtggtg tccagcgcgc aggcagcgga gctggtgatg 300
aagacccacg acctcgcctt ctgctccgcg ccgaccacca gcgtcaccat cgacatcgtc 360
ggctgcaagg gcaaggggct cggcttcgcc ccctacggcg accggtggcg tcagatgaag 420
aagatcacccg tcgtggagct tctcagcgcc acgcaggtca agcgca 466

<210> 34199
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-G2

<400> 34199

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gacccacata cactcccgcc cgtacgcccc acaaaccac accaaaacc actcccactc 120
ctccgacgta caccgaccc cccaagcctc cgacaccta gccgaccccg ccgacgtaca 180
ctccaagccc caaacctccg acgccaagc cgacccacc gacgtacacc ccttccccca 240
agcctccgac acctaagccg accccgccta cgtacactcc aagccctaag ccaccggcta 300
ccaagcctcc cagccccaag ccgaccccg caacgtacac cccttcgcca aagcctncca 360
caccgaagcc gaccccgccg acgtacaccc cttctnccaa gctnccgacg cccaagccga 420
ccccgctcgc gtacac 436

<210> 34200
<211> 338
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G6

<400> 34200

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gctgacgctg gtcctcatcg tggccttcgt ctcgctggtg gagtacctgg cgctgcgccc 120

ctcgaagccg tgcttctacc tgcaggacct gcagctgcgc aggcccatct cgctgggcca 180

cccgtcgctg acggcgctcg cgcaggtgac gctggcctcc cgcaaccca acgaccgcgt 240

gagcatcttc tacaagcgcc tggacgtgtt cgtcacctac cgcgacgagg ccgtgacggt 300

gcccgtgtct ctgtcgccgc agtaccagtg ccatcgct 338

<210> 34201

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G7

<400> 34201

ctttcaatac atacaagatt tttactttcg ttgatctcat cttaacacac cggccttatt 60

gtttaacata agtctcagtc ctgacctaac tcatcatctc acaa 104

<210> 34202

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-G9

<400> 34202

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gtctgggaac agaaattttg aaggacgtgt gcatccttta accagagcaa attaccttgc 120

ttccccctct ttagttgtgg cttatgcatt ggctggcaca gttaatattg attttgagaa 180

agaacctatt ggcattctga aagatggaaa agaggtttac ttccgggatg tttggccatc 240

cacagaagag atagccgagg ttgtcaagtc aagtgtgctc cctgacatgt tcaagagcac 300

atatgagtca atcaccaaag gaaatcctat gtggaatgag ctgccagtct caacaagcac 360

tctctacccc tgggatccat catctacata catccatgag ccaccttact tcaaggatat 420
gaaaatgagt cctcctggcc cgcggcctgt gaaagatgca ta 462

<210> 34203
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-E8

<400> 34203

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atcatccgcc acacgctggc cggaatcaac tgtgttggct tccttgcggt ctacagcagc 120
agcgtctccc cccaggacga tcagccggca tcctttgttg cggtaaatat cccgcaatta 180
ctctgtttca ggttccagta tccttcgcac ccccgactct aggtttgatg caaactcatc 240
tatctgcaca agtgggaagca acttggacct tgcaaagtga ccacccccat ggtctggcac 300
ttggcacggt gcgtctgctc actctttgtg caggggctac ttgtccccac cgatcggcat 360
caggaatacc tcagcacatg tctcgcgttc tgccaatgga tctcccagtc gttacgtang 420
ctcatcacgc atgtccc 437

<210> 34204
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H1

<400> 34204

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gcgccgcgct gctcgccggg gctgccggcg ccggcgcgca gcagggcggtg tggagcatca 120
tcacccggcc catgttccag agcatgctga gccaccgcgg cgacagcggg tgccagggcg 180
ccttctacac ctacgacgcc ttcattcgagg ccgccagcaa gttccccggc ttcggcacca 240
ccggcgacga gcagacgcgc aggcgggagc tcgccgcctt cttcggccag acgtcccacg 300
aaaccaccgg tggatgggcg actgctccgg atggaccgtt tgcttgggga tactgccggg 360
tgaaggaaca gaaacagacg gaccacacct actatggacg aggaccata cagctaactc 420

ataagtacaa cta

433

<210> 34205

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H10

<400> 34205

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ggtgtctgtg ttcaactgag acgtttttat ccggagttga acatcacaat aaagcaaagt 120

cactgatacc atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240

aaattaaata tttaaataaa aaaaaaaaaa aaaaaaaagg gggggccctt ttaaaagaac 300

caagttttcc tccccgggga ttccaattta aacattttta ttaggggccc ccaaatt 357

<210> 34206

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-H11

<400> 34206

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ctgaagatga agactaaaaa aagtggagct aacatcgatc tggactcaca aatgaaagga 120

aaatgagttg atcggaagac atgcaccaga caaaccataa ttgctgcctg aaaatgcgtt 180

agtagaaacc gataagctaa agcctggcga aggaactaga gataacaaat actgctactt 240

gatactagat acattggctt caaaatatga ctacag 276

<210> 34207

<211> 453

<212> DNA

<213> Zea mays

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<400> 34207

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acctagcgcc agctcttcca ccctgagcag cttatcagtg gcaaggagga tgcagccaac 120
aacttcgccc gtggctacta caccattggc aaggagattg ttgacctgtg ccttgatcgc 180
atcaggaagc ttgccgacaa ctgcactggc ctccagggct tcctcgtctt caacgctggt 240
ggaggaggaa caggctctgg ccttggttcc ctctcctgg agcgtctgtc tgttgactac 300
ggcaagaagt ctaagcttgg tttcactgtg taccatccc cccaagtttc gacctcagtg 360
gttgagccat acaacagtgt cctgtccacc cactcccttc tcgagcacac tgatgtggct 420
atcctgctgg acaacgaagc catctatgac atc 453

<210> 34208
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-010-Q1-K1-D10
<400> 34208

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tgagcagcag gcaccgccac cggcagtagc agcgccaccg ccattccatca accccgacga 180
cgacggcgcc cgcgatgtcg aggtcaccac gttccgagc atccaccctc tgacgcccga 240
cgcgccgacg cccgcctccg cgtcctggga caccgccagc caccgctcct tgcgtcgtc 300
cgacgaccag cagtacatga cgatgagccg cgagttcacg gccatggctg ccgacggggc 360
gaccatgcag accggcggct acgacggcgc cgtcgaccag ctcaccagca tcggcgagga 420
cgagctggag gagac 435

<210> 34209
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-010-Q1-K1-D11
<400> 34209

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cgatggcaac acccaggtcg tgaaggcaat cgagaacgcg atccccgtgc ggcggcgcgg 120
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 cggctcacct tctgggagct gtcgtgggac gtgatggagc ccatctgttt ctacgtcacg 240
 tccatgtact tcatggccgg ctacgccttc ttgctccgca ccaagaagga gccgtcggtc 300
 gaaggcttct tgcagagccg gttcgcggcc aagcagaagc gcgtgatgcg cggccggcgc 360
 ttcgacctcc gcaggtacga ggagctccgg agagcctgcg gcgtggcggc ggcgcc 416

<210> 34210
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D12

<400> 34210

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 ggaagggggc aacctagctg tggatcgacg atataacgcc caccctccgc catgttgcac 120
 gagcagcatg cggcgtcacc cgcactgaca tccctaccga tacacaccaa ccccttcac 180
 caccacacct tctatgacct ggccaccaac ttgatcgacc ccatctctt 229

<210> 34211
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D2

<400> 34211

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 cgcagagctc tctgtctccg gcctgtcttc tgccgtcccg gccgtttaat ttactagtgt 180
 gttcgtccta tatgtttagc agcagcaggt gtattgtgcg ggtatgtaat ggtattgcaa 240
 ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaagg 286

<210> 34212
 <211> 308

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D3

<400> 34212

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tatatgctga cttgcgtcca ccttagacga tcgatgatag aataacgcat acctctatgc  120
tgccggctct gcttctgccg tcctggacag ttaatttact catgtgtaat ctctatatgt  180
caatcatcag catgactatt gagctgatat gtcatgggat tacaactata tagtcattaa  240
aaccataatc aatgacccca actatgcaga gtaaattcac tttgacattc atagcactgt  300
gcataaat                                         308
  
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<210> 34213
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D5

<400> 34213

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gtactaaca ttttgatcgt cctaagcaat attacttgta ttgttctacc ttttcacaaa  180
ccaatcatat tatgttctac ctcatgattt cttcacctta atgtactatc aagtcatatc  240
ct                                         242
  
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<210> 34214
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D6

<400> 34214

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gaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaatTT  120
tataagttcc aagtttactt actctttctt gcaacgtcat atttttttta tagtgttacc  180
  
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taaatttatt ttattgccccg atttttttaa acgtcctgat ttgaaaaacc ttggagtttc 240
 caaacttaat ggcttttatag tacatattcg tttggtaaca tggcatatta tctaaaa 297

<210> 34215
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D7

<400> 34215

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 atgaggcgag atttttcttc caacaactga tttcaggagt tagttattgc cactcaatgc 180
 aaatatgcca tagagatttg aaactagaaa acactctcct ggatgatagt atagcacctc 240
 ggctaaagat atgtgatttt ggttactcca agtcctctgt gttgcactct caacccaaat 300
 caactgtcgg gacaccagct tacattgctc ctgaggctcct tgctagaaag gaatatgatg 360
 gaaaggctgc cgatgtttgg tcatgtggag ttactctgta tgtgatgctt gttggtgcct 420
 atccctttga ggaccc 436

<210> 34216
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D8

<400> 34216

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 acacttaccg atcatcacgc aaaacacatt attccaacaa cagaaatcac aagttacaca 180
 caaccactca atacacatat accatagaca ctacaaacta gaaaacactc t 231

<210> 34217
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E1

<400> 34217

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tgtactatct cgaagcattg tgcgtcgctg aagagaatca ccaccaccac cacctgttcc 120
accacaagaa ggactaggag cacgccgccg ccggcgggta cggcgagtcc gccgagtaca 180
ccgaggccac cgtgacggat gtcgtctcca cgggcgagaa cgagtacgac gagtacaaga 240
atgaggagaa gcagcacaag cacaagcagc acctctgcga ggccggcgcc atcgacgccg 300
gcgcccttcgc actcgtacgt agtccgtacg atccgatacct ccttgagtag tatatatata 360
cataaatgaa cgacgagaac gaattatata tatata 396

<210> 34218

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E12

<400> 34218

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catggtgctg gatctcatca aggagagcct gcccatcttc actcctgagc agtctatact 120
ggtgaagggc tcgacagact acatcgctat caacgagtag acatccagct acatgaaggg 180
gcagaagctg gtccaactag cggccagtag ctactctgcc gattggcagg ttcaatatgt 240
gtttgcacgc aatgtcaaac cgattgcacc acaggcaaat tctaagtggc tctacatcgc 300
cccgaacggg atgtacgggt gcgtgaacta cctcaaggag aagtatgcga atccaacgat 360
ctacataacg gataacggaa tggaccatcc tggaaacttg acccgagacc agtacctgcg 420
cgacgccacc aaggtgcggc tctacagg 448

<210> 34219

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E4

<400> 34219

accacacggtt cgggttaaaaa gctcgtaatt ggaccttggt cgggaccaga cgctccgccg 60
cacctcggta acctatcgca tccagccttc tatcaactat gctctcctgc acttaactga 120
ccgcatcggtg ccttcgctgc cgttacttcg aacaaattac agtgctcaaa gcaatccatc 180
gctctacata cattaccatg ccataacacc ataggattcc gactctattg tggcggcctt 240
ctcaatcatc ttcacgatta ttagcaacag tcaccttca 279

<210> 34220
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E5

<400> 34220
gtcgatccaa ttgtcacttg ctctccctcc aacaagctaa ttaaggccgg tgcattccctg 60
ttctagctcg tttcattatc catggctgag gagaagcacc accaccacca cctgttccac 120
cacaagaagg acgaggagca ggccgcggcc ggcggggtacg gcgagtcgcg cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgccggc 300
gccttcgcac tcgtacgtag tccgtccgat ccgattctcc ttgagtagta tatatatata 360
taaatagaacg acgagaacga ataatatata tatattaatc gaacgaactg aatgacgggtc 420
acctcgtgtg acgt 434

<210> 34221
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-E6

<400> 34221
cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa 180
aaaaaaaaaa gccaaatata caaaaaaac aaaatttttc tataattaaa tacaactagt 240

acaatattca tgagaagcaa caaaataaaaa

270

<210> 34222

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-E7

<400> 34222

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gcgcgtcgcc gtcaagcgt tgaaccgctc tgccctggccc gacccgcgcc agttcctgga 120

agaagctaga tcagttggcc tgctccgaag caaaagggtg gcaaatttgc ttggctgttg 180

ctgcgaaggt gatgaaaggt tgcttgttgc agaatacatg cccaatgata cgctcgcgaa 240

acatcttttc cactgggagt cacaatcaat gaaatggacc atgagattaa gggttgttct 300

ctgtcttget gaggcttttag aatattgcac caacaggggc cgtgctctct accatgatct 360

caatgcctat agagctctgt ttgatgatga ttgtaaccct agactntcct gttttggcct 420

catgaagaac agtcg 435

<210> 34223

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C8

<400> 34223

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ttgcctagat gcgcctggcc ctttgccctc ttgtaatgct tcttcttttc cctcttgttt 120

tccttttctt ggtcactatc attatcaggc cagttagcga taaaatgacc aatcttaccg 180

cacttgaagc atgagcgctt ccccttcgtc ttgggtcttgc ttggctgccc cttgtgaccc 240

tttagcaccg tcttgaagcg tttgatgatg agagccatct cttcttcatt aagtccgacc 300

gcctcaattt gtgccacctt gctaggtagc gcctccttgc ttcttgttgc tttgagagca 360

aaagggtgtg gttcgttgat cgggccattc aaggcgctcg ccacgtacct tgccctccttg 420

atcatcattc gcccg

436

<210> 34224

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B2

<400> 34224

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acaactcgct gagccccgcg cacacgctgg ttcagatcgt ctgcgctgac cagaaggggc 120

tcatttacga tatcttgagg acgatgaagg actgcaacat ccagatattt tacggccggt 180

tcagatcaga caagaaaggg tcagccagca aaggttcacg aggttgccgt gaggtggatc 240

ttttcgtgaa gcaagtagac gggaagaagg tgactgatcc tgcgaaacag gacgcgctgc 300

ggtcacgcct gaggtccgag acgctccatc cgctcagggt catggtcgtc ggccgtggac 360

ccgacacgga gtcctcgtc gccaacccgg tcgaggcctn cgggaaggga cggccgcgcg 420

tgttctacga cgccac 436

<210> 34225

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B4

<400> 34225

gcgaccacca agcagagcaa gccagtgagg tctctcagag cgtagccagc cagctacaat 60

ggcggtggac gcgctagcca actatgtcca ggtctacgtc atgctcccgc tggatgtcat 120

cactgtcgac aacacgttcg agaaggagga cgagacgagg gcgcagctga agaagctgac 180

ggaggcgggc gccgacgggg tcatgatcga cgtctggtgg gggctggtgg aagggaagga 240

gccgggagtc tacgactgga gcgcctacag gcaggtgttc aagctggtgc aggaggccgg 300

gctgaagctg caggccatca tgctgtgcca ccagtgcggc ggcaacgtcg gcgacgtcgt 360

caacatcccg atcccgagc ggggtgcggga cgtcggcaaa agcaaccccg acatcttcta 420

caccaacccg agtgggctga c 441

<210> 34226
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-B5

 <400> 34226

 tcacgatact tcacatgata tttgatcggtt ttaaatagct cacacaacac tgattatctg 60
 tccaccttca acccacacgc gaaaaatatt cgacacgctc tactttctgta catacctatc 120
 atgctattac tctatccaca catcacccctg ctgtaccact ttcaccaact cctaacgtac 180
 ctaataccac atataacgat aacatcaatg atatcatata cgaaaactcg tgtttacatg 240
 atgctcacct tacattctaa gattataaag agctacttta tacctctcac a 291

<210> 34227
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-010-Q1-K1-B6

 <400> 34227

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 ggtgtcgggc gccacgccca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 120
 gtcggggcac aagcaggggg acatgctgct ggtggtgccg cagggcgcg c acgcggtgcg 180
 gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 240
 catcacgttc agcgcggcg gcacgtgcgc gcaggcggag cggctgaacg tgtcggtgag 300
 ccccgagtgg ggcgtgctcc cgatgcagac catctacggc agcaacggct gggactcgta 360
 cgctggggcc tttcaagcga agatggacgc ggtgacgctg ctcatncaca acccgggcgt 420
 tga 423

<210> 34228
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-B7

<400> 34228

cccacgcgtg ctactaact atgtagttcc tactaactca aacctactta gggacaccgg 60
ggtttcatac actcacgcca tccattaatt agatacatte atctatctac aattcatata 120
atcacctcac tctcactact acttgctctt catgggttcct tacatcacac actctcagcc 180
cctttttcaa gactcgtctt tctcgcagcg acttgccgta ccgcatctcg actactactg 240
cat 243

<210> 34229

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B8

<400> 34229

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ttctccgatt ggccgcgcgc cgctcgcgcc tctcgtcaa caaaagccca ccggaagcga 120
gcgagcgagc caccctcccc gcgcgcgcca ccgccccgt cccgccccca ccccgactcc 180
tcctgaccgc cggcgtgggg tgcccgggct ccacctcgg cgacgacacc ctccccgccg 240
cgcgcgccct caccgcctgc tccgtttgcg gnggtagccg gggctccggc ctccggcggct 300
ttcaaagccc cctccctcac aacaggatcc anaatcccgt cctagacttc ttctacctcc 360
ccttcagaa cttctcttt tggcatcccg gacggctgat ctgaccccc ttcgacttcg 420
attcatctct tcttatcgat tg 442

<210> 34230

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-010-Q1-K1-B9

<400> 34230

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gcgatgcat ggccgtcttc tccgacctcc acaccgccga cggcctcaag tccctcgagg 120
ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat gacattaagg 180
tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc cgctggtacg 240
agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggg gtaaactctgc 300
ctgcgggatc agctcctcgc gcagctgctc ctgcggatga ggctgaggat gatgatgacc 360
ttgatctttt tggatgatga actgaggagg acaagaaggc agctgatgag cgtgccgncg 420
ctgccaaggc ctcttctaaa aagaaagaaa gt 452

<210> 34231
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-010-Q1-K1-C1
<400> 34231

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cgcaatggca ctcgtgtaac actgctccat cttcaccacc gacgtggcgg cgctccccag 120
gaatgggcat cagcagacgt cgtcgtcggt gttctcttac tctactctt cctccttctt 180
cgtcggcaag acgctgctga ggcacgccga ggcagcccgg acgtcggtcg ccgtgcgcgc 240
ctctgcggat tccgacaggc cgatctgggt cccctgcaac acccctacga cgaggctcga 300
ctgcagcctc tctcacaact tccgctttga tccctgtggc ctccgatctg acccgagag 360
cctgcggtgg aacgtgcatg cggatctggg gcaactgccg tgggcgatgc tctgcgcagc 420
gggtatcttc 430

<210> 34232
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-010-Q1-K1-C11
<400> 34232

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gaaaaacaat cctgacaagg tggccgctct aatactggaa aatacattta catccatact 120

ggatatggct ggtattatgc ttcccttctt aagatgggtc ataggtggga gctcttctag 180
 aggtccaaaa cttctgaact gtgttcttcg ctctccatgg aatacacttg atatcattgg 240
 agaggtcaaa caaccattc tcttcctttc tggattacaa gacgaactag ttcctcctcc 300
 acacatgaag atgctatatg acaaagcttc tgatcataat agcaattgca gatttggtga 360
 ttttcctagt ggtatgcata tgaatacctg gatgtctgga ggggaccgct actggaggac 420
 aatccaactg ttcttggatc aatatgctcc tggagtacaa aatcgtga 468

<210> 34233

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C12

<400> 34233

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 attatccact gacttttcat accaatcgct attcaccaat tattataatc aacatgttcc 120
 tcattccact actcttaatt acttttctcat cacactcatt atttttttct aactaaccta 180
 tctcactaca ttctaaacc agttcacatt ccctatttgt cttataacaa tccaacacta 240
 tttcaattct ttttcacact cataata 267

<210> 34234

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C3

<400> 34234

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 cgtcgattga gaagatgacg ttgcaaatat ttcagacttg tcaagataag aagagacgaa 120
 ggaagaacaa tcaaatgaga aaccttttca gtcagtatag aatgacatct tttttctttc 180
 agttcagacc accaaggatc caccttcctc caatggtgtg gtgcaaaaac aacaacatgg 240
 tctacacagc agtgccctcta acgcaaggaa ggacaaaggc agacgccaca gagtatcatt 300
 gaggaaatca tgtctctgtt attaaatggg ttgcctgcac atctgctttg agctgatcac 360

cacgccttgt ggacacaggt aatttataac tgtgtctttc caaaaaagga tggttgcatg 420
aattctatgc 430

<210> 34235
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C4

<400> 34235

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ggagtgcggc agaataatcg aagaaacaat ggctcggtta agtgatctgg agaaaaaact 120
ggaagacctg acatctaaga tggctgacag cgagaaatca actagctaga atgagacaca 180
tgtgaagtgt atggctgaat catacaagtg acttgaatca cggaaaatcg aattagaaaa 240
tgagatagaa gcgctacagt ccagaataga tgctctaaca gctgaactct gtgatgaaag 300
acagagtcac caggaggact tagttaaata cagaga 336

<210> 34236
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-C5

<400> 34236

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ctcgtectcc accaccgccg tcgcggcgct cccaggaat gggcagcagc gggcgtcgtc 120
gtcgttggtc tctctctctc cctcttcctc ctctctcgtc ggcaagacgc tgcagaggca 180
ggccgaggca gcccgccgt cgttcgccgt gcgcgccgcg gcggattccg acaggccgat 240
ctggttcccc ggcagcacc ctcgccgtg gctcgacggc agccttcccc gcgacttcgg 300
ctttgatccc tggggcctcg gatctgaccc ggagagcctg cgggtggaacg tgcaggcgga 360
gctggtgcac tgccggtggg cgatgctcgg cgcggcgggt atcttcatcc cggagtctct 420
gaccaagatc ggcgt 435

<210> 34237

<211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-C6

 <400> 34237

 gacccacgcg accgagcggc cacgctcacc gactcctcac ctttttcacg cgcaatgaca 60
 ctcgggggcca tctgctcatc ttacaccacc ggcgggcgct cactcaacag taatgggcac 120
 caacaagctg acaactccat aggtctcctc ctctactct tactccttac tcttctgcaa 180
 taca 184

<210> 34238
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-C7

 <400> 34238

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 ctggtgggtgg tggcctgtag cctggccgtg gagatccagg ccgacgccgg gtacggttac 120
 ggcggcgggt acaccccgac gccgacgccg gccagcccga cccgaagcc cgagaagccc 180
 cacaccaagg ggccgaagcc ggacaagccg cccacggagc acacgccgtc caaggagcac 240
 gggcccaatc cgcagaagcc gtcccaggag cacacgccga cgccgaccac gtaca 295

<210> 34239
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-B12

 <400> 34239

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 ggccggcgcc ggagcgtcca agacctacc gcagcaggct ggcaccgtcc gtaagaacgg 120
 cttcatcgtc atcaagaacc gcccctgcaa ggttgtggag gtttctacct caaagactgg 180
 taagcatggc catgccaaat gccactttgt tgccatagac atattcaacg ggaaaaagct 240

cgaagatatt gttccttcgt cacacaactg tgatattccg catgtgaacc gtactgagta 300
ccagctgatt gatataatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 360
taaggatgat cttagactcc caactgatga gactcttgtg gccagatca aggaagggtt 420
cgaaagcggc aaggatcttg ttgtgactgt ccagtctgct atggggg 467

<210> 34240
<211> 194
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-F9
<400> 34240

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acgggtgggttc ctgtgggtctc gagggagcgt cngtagtgac atctactacc agcactggta 120
ttccgcttct gccagagaag cactgcccct tgtttgatga agcttgtgga gccatggcgg 180
gcagtaatag tcct 194

<210> 34241
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-009-Q1-K1-G10
<400> 34241

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aggctacgac actatctctc aaccaagata tttaagataa catgcatcac acctgtcgcc 120
aatcatattg aaccacgtcg agaacaagca aatgcactct gtcaagtact cctaccatct 180
catgctacag atcttctctg tatggatata cttcattacc ttctgccatc aatacacaat 240
ctgctaaaag atctgcatgc tctagaccct gccacacag aggctctaca aatca 295

<210> 34242
<211> 441
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-G11

<400> 34242

ntccccact cctccaaana aaaaaaaaaa ttaaaaaaaaa aataaaaaaaaa aaaaaaaaaan 60
aggtnnggtt ttattaaaaa ataatagaaga ttatatataa aattaaccta ntaaaatcta 120
gtctctaacc cagataacca aaaaaaaagg cccccccctt ttaaagaacc acaactttac 180
ttccccctcc ttccaanata aaaatTTTTT ttttaaggccc cctaaattca attccctccc 240
ccccTTTTta caccctctta acttaaaaaa cccttgcttt cccaactta ttccctttga 300
aaaaaatccc ctttttccca atttgcttaa taacaaaaaa cccccacca atcccccttc 360
ccaacatttt cccccctaa atttcaaatt gaaccccccc ttaaccccc cattaacccc 420
ggcggTTTTT ttttttccc c 441

<210> 34243

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-G12

<400> 34243

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ggggacaaca ataataactc caattgccgc cgcccccttg tggccaaaaa caaaaa 116

<210> 34244

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-G3

<400> 34244

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acctgcaa at gagctgtaca cgaaatcatt atacttttca tcaatagcac ctaaactaga 120
ctctaagatc acatgcataa cacttgtaa gcatgataac aaacatctc atgctaaaat 180
acatctcact tgtgaagaac taacaagata tgcacgctac atatcttcca gctatgggta 240
tacgtgattc tcttctgcc aataacaca atctgttgaa agatct 286

<210> 34245
 <211> 245
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-G6

<400> 34245

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 gggcactgaa catgccgtgg tctctattcc actaaaccg cctgacgatg cacatgaccg 120
 cggctaaggc aaaccagcc gcgagcttcg gcagaccgtg atacaggcct gaccgcgttc 180
 tctacctggg ccctctgtgc ggcgaccca caagctaact gactggcgag tctcccggtc 240
 gacta 245

<210> 34246
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-G9

<400> 34246

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 ctgcacacca actcattana cttntcatca aatacaccta aactgcactc ttatatccac 120
 tatcaaattg cttctcaagc tgcaacacaa tcctcctcag cctcaaatcc aactcaatca 180
 attaacaata agaacaatga cacctacttc tggttactatt tttgtaaadc tctaatacctt 240
 ttcgctttca tttctgcatt tttttaatta tcaaaatcaa acattccttc cccacctgca 300
 ccatccacat ttaaacttat ctattcacia aaattcttct caaaatattc taacataccc 360
 ccattt 366

<210> 34247
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H1

<400> 34247

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tgccgaccgt ccgtccaccc cctctcctct tcccggcgcc ggcgacagcg ggagggactc 120
cctgggagga atggccgtgg tgagggctcc gctcggcgcg gtggcggtgg ccgctctcgt 180
cgtcgccatc ttcattgccg ccgccgcagc ggcgaggca ccggcgccc cgcccaccag 240
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<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-H11

<400> 34248

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gcgggtacac cccgacgccg acgccggtca ccccgacccc gaagcccag aagcccccca 180
ccaaggggccc gaagccggac aagctcgcca aggagcacia gccgtccaag gagcacgggc 240
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<210> 34249

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-H4

<400> 34249

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acgggtgggg ccacgcctgg cctgacncgg gaagccggcc ggaaccatcc aactccgccg 120

cgtcgctgctc gccttcgtct cgcgtgctca ccaagagaac aaaacgcgag cagccaagaa 180
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<210> 34250
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-H5
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 cataaaaaaa ataaatattt tttattcttt ttaaaaaaat aaaattataa tttcatctta 180
 aaaaaaattt tatatttttt ttataatata aaatatattt taattttttt tcctaaaatt 240
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 aatctctaaa aaccatgttg taaacaaaat aaaaaatttt ttaaaa 346

<210> 34251
 <211> 369
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 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-A1
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 ctctacttgc gttttggaca ccgtaggggt agggctacat tttttccaag agatcgatca 180
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 cgacgacgac ggaagccttg ggcatgttca tgtccagcat gatgcagcat gccccagatt 300
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369

<210> 34252
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A11

<400> 34252

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cgccaacgaa gaaaacacat aggaagaagc tcaccgcaa acctcatcca gatccagtcg 180
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<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 34253

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ttgggcgtgg ttggccgcga cttcgcgctg gtggcgggcg acacttccgc cgtgcagagt 180
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cacctgtacc agttccggaa caccatcccg ctctcaaccg ccgccgncgc caacttcaca 360
cgcggcgaac tcgccacagc ctttcgcaag aatccatata tgggtcaatat tattctgggt 420
ggctatgat 429

<210> 34254
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-A7

 <400> 34254

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 tgatattaat atatttttta tatagacttc tctattttta ttactgtccc ttttttttta 180
 caatgttttc tcttacaaaa ttttggttat cccaatttaa ttcttcttga aacatatccc 240
 tttttaaaca tttaatatta ta 262

<210> 34255
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-F4

 <400> 34255

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 gcgacgtacg acgacgacga cncangcgcc acacatggca tcccagctct ccgccgccgt 120
 gccccgggttc cacggcctcc ggggctacgc cgcgcccagg tccgcggtgg cggcgtgcc 180
 gtccgtgagg gtgggcagga agaggtcgtc gtcgcagggc atccgctgcg actacatcgg 240
 ctccgccacc aacctgatca tggtgacgac gacgacgctg atgctgttcg cggggcggtt 300
 cgggctggcg ccgtcggcga accgcaaggc g 331

<210> 34256
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-010-Q1-K1-B1

 <400> 34256

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ctggctcggg ggtggtagtg gggcgcgggtg ccccatgtgt gccgctgcag cttgtgtctc 180
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<210> 34257
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-B10

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agaccctcga ggctcacctc atcggcaaaa cctatgtgtc tggtgactcc attactaatg 180
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cccgctggta cgagaccgac tctgcggctg cagcctcaag agtccctggg aaggctgntg 300
gtgtaaattc gcttgcctga tcagctcctg cggcatctgc tcttgcggat gaggctgacg 360
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<210> 34258
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 34258
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atgaaatata tgatttctat cacatagctt cagaattata ccgcgaatgt ggaacgccac 180
aacctgcata tgatgctcta gcaaaggggtg ccaatgcatt ggaggagaaa tctccagaag 240

aagctatcaa aatgtatgat gaggcttggt cacttctata agaagatagg aaggaacaca 300
 tggccttttga cttgtaccgt gccgcagcag ctttttatat caagatggag aaatattc 358

<210> 34259
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-C5

<400> 34259

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 accaccccat tcttcccaca atatcacttt tttatacgct cacttaattt caataccctg 180
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 aaaagacatc ctcttttcgc catttccaat aatttcaaaa actt 284

<210> 34260
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C6

<400> 34260

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 tatatccatt ttctttcata aataaaaacc gctttttacc ttcaaaaaaa aaaaaaaaaat 180
 aaccaaataa acaaaaaacc ttaattttta acacatccat ttacaatata tattttattac 240
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<210> 34261
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C7

<400> 34261

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 gtatgtggtg agcaggaatg gtgatccctt gttttggggg atgttgctgt gcaggtgtaa 180
 ttatcgtaa ctcagttgtc tatctatagg ccagttcag cttgagtttt atgggttaact 240
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 agcagatggt tgtctgttg aagttgtttg tate 334

<210> 34262
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-C9
 <400> 34262

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 accggtgaga ctgaggagtt cttcacttca tatgatgaag tttttgagag ttttgatgat 180
 atgggcctcc aagagaatct tctgagagggc atttatgctt atggttttga gaagccatct 240
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<210> 34263
 <211> 350
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 <213> Zea mays
 <223> unsure at all n locations
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 <400> 34263

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<210> 34264

<211> 261

<212> DNA

<213> Zea mays

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<400> 34264

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agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 180

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<210> 34265

<211> 90

<212> DNA

<213> Zea mays

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cgctgattca ttaaactgct ctctcagaag 90

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<223> unsure at all n locations
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<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-E2

<400> 34270

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<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-E3

<400> 34271

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 <223> unsure at all n locations
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H5

 <400> 34279

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aaaataaaaa aaaaaaaaaa aataaaaaaa ataattaaac ataattattaa aaaaaatata 240
aatatttaaa aaaaaaatat aaaaaataac atatcaaac ataacatatat tattaataaaa 300
aaaaaatcaa tatacaaaaa aaaaaataaa aatataaaaa aatatattaa aataaaataa 360
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<210> 34280
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-H7

 <400> 34280

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gagaggggag ctgcagcaa ccgctgtgaa tgcgcccatg gtcccagctg agatcctgtc 180
agagctggct ccatatgttt ctctggccga gaagctcggg aggctggcgg tgcagctcgt 240
ggccggcgag agcggcatca agggcggtgaa ggtgggtgtac accacagcgc gtggccccga 300
cgacctggac actcggctcc tccgcgcgat ggtgaccaag ggctgtgtgg agccggtgtc 360
cagcacgttc gtgaacctgg tgaacgcgga ctacacggtc aagcagcgcg gccttcgnct 420
cacggaggag cgcgtggcgc acgacag                                     447
  
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<210> 34281

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H8

 <400> 34281

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 ggacgcgcgtc gggctcgtgg acatcgcgct cgggagcttc gtggtgtgga tcagggtggt 120
 ggacgaggcg gccggcgtaa agcttctgga cgaggccaag ttcccggcct tgacggcgtg 180
 ggcggagcgc ttcttggcgg tggacgccgt gaaggagggtg atgccggacg ccggaaggct 240
 gttggagcac tacaaggggt ttctggctaa acggtctcca cctgctggtt actgaacgct 300
 gtaactgtaa gcctgtaaca gcaagctcag tgttcgtgta cttttccgtg cgtaaacgtg 360
 tactagagtt caggaaaggc ttgattctg tccagagtcc agacgaataa acgaatggtt 420
 tttatt 426

<210> 34282
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-A10

 <400> 34282

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 tttacgggtgc tcttctgcc gcttgaccct acctccagct gaaccaattc cagggttggc 120
 gggcctttta ccataaaaga taactcttcc cgaagcccc tccggcgtct ccggacttcc 180
 taacatctcc gtctgccgtc acgtcccatc tctggaaatc ttaaccccat tcccttttct 240
 t 241

<210> 34283
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-A11

 <400> 34283

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actgcctgac aacaatggtt ctctttatgg ggatctcaaa aggatctgtg agactgaact 120
cggattggtc tcccagtgtt gtctgactaa acatgttttt aagatgagca agcagtacct 180
tgcaaatgtt gcactcaaaa taaatgttaa agttggggga aggaatactg tactttttaga 240
tgctttgtca aagagaatcc cccttgtcag tgacagaccg accataatat ttggtgctga 300
tgttacccat ccaca 315

<210> 34284
<211> 346
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-A2
<400> 34284

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gtttaaataa aaaaaaagtt ttaaaaaaaaa caaatataat attttaattt atttataaaa 120
ttaaataaaa taaaatatat ttttaatatatt ttataatttc ttttttttta aaaaaatcta 180
tataattttta ttttgactgc ttcttatatt taatcacttt ttttaatttc actttattta 240
aatatttttt ctctttttta acaattctaa aaataaaaat tttctatttt ttttttaaata 300
tttttacttt tataaaatta tttatttttat atcttttttt tttttt 346

<210> 34285
<211> 387
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-009-Q1-K1-A3
<400> 34285

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gtactgtcgg gcgtggccgc cagggccagc tggcactggc tgggtggcgta catcaacctc 120
ggctgctact acctcgttgg catccccgtc ggggtacatca tcgacttccc gctgcgcggc 180
ggggtgcagg ggatgtgggg cggcatgctc acgggcgtcg gcctgcagac cctcatcctg 240
gtcgccatca cgctgcgcac caactgggac aaggaggcca gcgaggccca ttccaggata 300

cagaaatggg gtggatcggc ggcggacaaa agttcacatg catgactagt ctgaatgacg 360
cgcgccacca tgagaataca atacaac 387

<210> 34286
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-A8

<400> 34286

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ggttggagat ccagcaagac ctggacagaa ntggcacgtc ttctacgcca ctgagtaccc 120
agagcaacca atggttaacc ttgaaatgtg catgactggt ctggacaaga agaaagcttc 180
tgtctttttc aagactaatg ctgatgggaa cacaacatgt gccaaaggaaa tgacaaagct 240
ctctggcatc tctgaaatca tccccgagat ggagatctgc gattttgact ttgaaccctg 300
tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 360
ggacggtttc agctatgccg gttatgaggt tatgggcttg gatg 404

<210> 34287
<211> 304
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-A9

<400> 34287

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ttgcaccagg ggtatatgcc tcaaagttag gtctccggac caagagaaca gtaatctcgc 120
ccaacaagac aacgtggcac cggatgcagt gtctggcgat caatgattat ttcaggttgt 180
gctcctgat ttaggggtggg gtgacagctg ccatgacaac taattatgat gttatacaca 240
gaagggcagg tggacctgta actagtccac atgaaccaca tctaacatgt taagctgact 300
ttca 304

<210> 34288
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-B1

 <400> 34288

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 gcgcgatcaa acaagacagg aggggtgaaac tcgccttctg aagcgtctgc gactccttca 120
 gcgccacctc catcaaggcc tacgtggccg agttcatcgc caccctcctc ttcattctcg 180
 ccggcgctcg ttccgccatc gcctacaggc aactgacgaa tggcggcgcg ctggaccocgg 240
 cgggcctggg ggcgatcgcg atcaccacag cgctggcgct gttcgtgggc gtgtccatcg 300
 cggcgaacat ctggggcgga cacctgaacc cggccgtgac cttcgggctg gccgtgggcg 360
 ggcacatcac catcctgacc ggcg 384

<210> 34289
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-B11

 <400> 34289

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 atggcgcgaa ctatttggtc agcacgtacc tactatatga caagtcacaa ggtattatta 120
 aaatacccca actaaaaact caaaatcaaa agaaaaaaga gaaactggta aaactacatt 180
 tgtgaagagg catctcactg gagagtttga gaagaaatat gaaccaacca ttggtgtgga 240
 aattcatccg ttggatttca ccactaactg aggtaagatc aagttctact gctgggatac 300
 cgcattggcaa gagaagtttg gtggcctcaa ggatggatac tata 344

<210> 34290
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-B2

<400> 34290

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gaatcctctc catgggaagg cactctgac cagacagtgc tggctcttcc tttctattc 120

ttctgggcaa ttcaccgcat ctgatggcc agtatgctgt atttgggagg gtcactaaag 180

gtgacgatac attgagtaag ctgagagagg ttccaacccg gagagaaggc atttttgtaa 240

tgccgatcga gcgtatcaac atcctatcaa cttactatta tgatattgat ctagagagct 300

gtgaagcaga aaaatctatt ctccggagga gactttctga atcagcatca gaagttgagc 360

gatggagaag aaaatgcttt gcttaatggt gg 392

<210> 34291

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-009-Q1-K1-B4

<400> 34291

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cgatcattct ttagctgcgc taactctagc ctctagccct agctagtagc tagccactcg 120

gtcgtgtagt catcagcctt ctgatcgta cccatggcca ctgccgaggc ccagaccccg 180

accgtcttgg cgaccgagga agcgccggtg gtggagacct 220

<210> 34292

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-H3

<400> 34292

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cgggaccgag gaagtacttc ccagattatc gccacgtcta agtgttgagc tcgtacaaaa 180

gaaaatttat ttgctgttg atcagtaggg agaccgttct gggggaaacg gtaattttat 240

tttattaatt aatagctcca gctgtaagat tgccagttgt tatattttca tgattttgac 300
 acatgaattt caatttgctt gacttatgtt tgcaaggaat tacttttaggt ttgttcattg 360
 ctctgatgaa atataaatta tatggagtga catcc 395

<210> 34293
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B5
 <400> 34293

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 catacaatct tgcttgctg tccatgcaat ttatatatag tcctaaaatg atttcaaac 120
 caaactatct aaactcctct ttacagactg agaaactgct aaaa 164

<210> 34294
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B6
 <400> 34294

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 gcgcggcccc cctcgctgtg gaccgaaatg gcgctgccga atcaggggac cgttgattac 120
 cccagcttca agctcgatcat cgctggcgat ggtggaactg gtaaaactac atttgtgaag 180
 aggcatttca ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtcat 240
 ccgttgatt tcaccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg 300
 caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcatcatc 360
 atgtttgatg t 371

<210> 34295
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-009-Q1-K1-B8

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 ggtccgcaag attatgattc aagtgcagac taagtagcag caccgatgtt tcctttttgt 120
 ttctttcgtt tttggtaaag ttgtagtggt tgttgaagaa aaggattgca ataaaattag 180
 tgtttatata c 191

<210> 34296
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-009-Q1-K1-C10

<400> 34296
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 caagttattg ctgaaatgaa acctatttaa aaactgatgg tgaagggttct gacaaattct 120
 tagcaactga cagtgtcttt tcttgtgaag atgatgcaac ttgcatggat cgtgtgaatg 180
 tgattgtatc actggatgta ccccgtagca ctaagaatga tacattntcc aagaacacat 240
 cttc 244

<210> 34297
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-E11

<400> 34297
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 aacgggttaac atataacaca ggaacttcaa cataaactat atcctccact ctcctcaact 120
 actctctaaa acctactact ctc 143

<210> 34298
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-E12

<400> 34298

ctccacact ccttacctca ttgctttaa tatcatcatt cacaccttat ggggctgggt 60

ttaaaatagg gtgggcccac cctactccat ccaccaacc aaagtttacc acatcatatc 120

ctattttctca agaacatctt ccaacatcat ccacaccacc atcctttctc tcctctccat 180

catacatata tctactcca tccttctacc ctaacctctc ttc 223

<210> 34299

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E5

<400> 34299

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cttaggaata cctatggtca gcatgctcct ttatgtctgg agccgagaga atccaaatgc 120

tcagataaat atatacggcc tcgtccaatt gaggtccttt tatcttccat gggctatgct 180

cttattggat gtgatatttg ggtcatcatt aatgcctgga cttctgggta tcatgggttg 240

acatctctac tacttctttg cagtgttgca ccctcttgcc accggaaga actacctcaa 300

gactcctaaa tgggtacata agattgttgc tcgattcagg ataggcatgc aagcaaactc 360

accggtccgg ccaccagcca atggcaacag cgggtctggg gtgttttagag gaagaagcta 420

taggctcaat caatagattc actgattcat 450

<210> 34300

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E6

<400> 34300

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttggatc cttttaata ttcaaacttt 180

accttcaatt atattaaatt tattatTTTT tttataaaat cccttaaatt gatttaatta 240

tctaattttt caaactttta aaacttttta aaaaatttgc attttaccta ttttaatttt 300
 ttataaaaatt ttccccctttt ttcaattttt 330

<210> 34301
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-E8
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 cttcctcgcc gcctccgcta acgagcaagc ccaggcggcc aaagaggaga agaaggcgga 180
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 caaccggggg taccatggcg gctgccggtg ctgctgcac cctgatcaga taccagagcc 360
 catgtaccgt cctgagctcg tcgagggtcca caactaaata gtaatgagat gcgctgctac 420
 tatatatagc ggtacgtatg cccgatggga agc 453

<210> 34302
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-F1
 <400> 34302

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 cagacgggtg ctgttgaggt catcaagagc gtggagaaga aggaccaac tggtgccaag 180
 gtgaccaagg ctgcagtaaa gaagaaatga tgcgtcctct catgtgccct cgtttatttt 240
 gtacttgctg ccgtatactt cgatctgtta aaatctattg gttgtgtgcc ctgtgtctgt 300
 tgtttgggta tctatactgt tattttgaga catgttgact tgcattgtca tctggattgg 360
 gttcgcattt ctgagtc 377

<210> 34303
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F10

 <400> 34303

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 gacgaaacgg tcgacatggc tcgcacgcaa tctgccgtag cggtcgccgt ggtggccgcg 120
 gtgctgctgc tggcagcggc ggcgacgacc tcggaggccg ccatcacctg cgggcaggtg 180
 agctccgcca tcgcgccctg cctctcctac gccgcggca cggggtccgg cccctccgcg 240
 tcctgctgta gcggcgtcag gaaccttaag agcgccggca gcaccggcgt cgacaggc 298

<210> 34304
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F11

 <400> 34304

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 gccgtttcct catctcccc cgcctcctcg atccgcttcc cccgcggcgc cgacggcggc 180
 gccagcagag cggccgtctc tctccgcgcc cccacgcctc cagtctgtga ccccaaaagc 240
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 aag 363

<210> 34305
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-F2

<400> 34305

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gtgatcaact gtctagttct ctactcgacg cggacaccct gacccgcgcg cgcgcgcgtgg 180

ccatggtcgc cgccgcccgc gccatcctcc tggctcctgcc cgtcgtcgcg gtcctcgcgt 240

cgtcgtccgc ggcggcggac gggtcgttca taacgtggga cgacctcagc accccgtccg 300

ccgccnccgt gcaggcgggc gtgaaggcgg ccagcggggg aggcgcccgc gagctggaca 360

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t 421

<210> 34306

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G11

<400> 34306

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gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcggc 180

ggtgaaggcg ttgctgccgg agtctgcagt cggagagctg tcggcgggtg gcccggtggg 240

ggaccatgtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300

agtctgcaac ttcaagtttt ctggggactg cca 333

<210> 34307

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-G12

<400> 34307

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aaggtaacat aactaaagat agaacaaaaa aaatctaaat aaactactac taaatacata 120

ccccatttca cacactacgt catcaaccat ctattccaca ccaatgccaa ttaccttccc 180
 tttatcctat tattactcaa cgccctctaac tcacaatcca agctatctac cactgcctct 240
 gctcggacca cgaccacaac caccttaagg cgttcgcgct tcacgtgccc ttaccattac 300
 ctcattcctt cct 313

<210> 34308
 <211> 193
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-G2
 <400> 34308

aaaaaaaaata aaaaataaaa aaaaaaaaca tacaatataa aaaataaaaa aattaaaaca 60
 agaaacaggc aaaaatataa aatatactat aaaaaaacct aaaattaatt tcacttaccg 120
 ggcccttctct tctttttctc tcttatttac cctcgcgttt cccacttaa ttacctttct 180
 tctcatcccc ctt 193

<210> 34309
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-G4
 <400> 34309

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 ctcgggaacc cgagcctcat ccacgcgcag agcatccttg ccactctgggc ctgccaggtc 120
 gtgctcatgg ggcgcgtcga gggctaccgc atcgccggcg gcccgctcgg cgaggtcgtc 180
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 ttgcgcgagc tcaaggtcaa ggagctcaag aacggccgcc tcgccatgtt ctccatgttc 300
 ggattcttcg tccaggccat cgtcaccggg aagggccgcg tcgagaacct cgctgaccac 360
 attgccgacc ccgtcaacaa caacgcttgg gcctacgcca ccaacttcgt ccccggaag 420
 tg 422

<210> 34310

<211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-G8

 <400> 34310

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 gggaagcgcc ggaatttcca cagagcctga tctccaggtg caagaacaag tgcacggcga 180
 tatgaaaaac cgcctggaaa tgcaggggtcg caaccggaag cttggccatg aggtgaccac 240
 agtggagttg aagcatcaca ggaggattac cagtgggcac aagggtggca gcgcgggtgg 300
 aggcgccggc gccggtgccg cgggcccagg cacgggtggg cataacgtgg gcggcggggg 360
 cgccgtgacg aggccgtaca gcttcaagaa cggncgcggc g 401

<210> 34311
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-G9

 <400> 34311

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 tcggtttcgg gtacagggtac gcttttggtg aaggtcgttc gagcttttcc tgggagtatg 120
 gcatgggtta catacttcag cgccgtagcg cctggtatga gcctcgtgga gaagcaatgg 180
 ctagtccacg gggtccatac ttcagcgctg cagcgcttgg tactcggacc tcggctcgag 240
 gcattttctc tacccttctc taccctgaaa aagcagggtc accttgtgtc cttaaacctc 300
 taaccatctt tcggctaacc tagcctctc cgtccttccg taccaacaag gggtagtcca 360
 ggaatattga cctgttggtc atcgactacg cttttcggcc tgatctaagg c 411

<210> 34312
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H10

<400> 34312

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gacgagaagc accaccacca ccacctgttc caccacatga aggacgatga gcatgccgcy 180

acctgcygggt acggcgagta cgcgagtagc actgaggcca cggagacgga ggtcatgttc 240

actggcgaga acgactacga ctag 264

<210> 34313

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H11

<400> 34313

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gacctgccac aacattatct catctatgaa cactcaaacc tctcttcaat aaatactgaa 120

tcacaactcc ctacaattct atccttccta ccaattttcc ttcattcattt ctacttatca 180

caccattttt ccattccata aattcctacc catttc 216

<210> 34314

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-H12

<400> 34314

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gcagatcggc catggagagc tgggctaccg gtgtggggac aagcgtagc tgcgccttct 120

tcgcctccct cgagcgetgc tctgcatca acctattcac cgacgactac gactacgacg 180

aggaccacga ctaggccaaa gaccggtctc tcatgctcgc cgactacca cgccacgact 240

acgccatcaa gcccgatcca gactc 265

<210> 34315

<211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-E1

 <400> 34315

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 cccggcaaatt tagcaccggg gttctgatca tcgtcagccc ttggattcat tccatcctcg 180
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 cgtgcttggt cttccaattg ctatcttctt ccacatgtct ccttcaccgg cgccaagcag 300
 cggctgcagc ctagcagtag tagtaggcgg cagcagtagt gcaggggtcgt ccaacaagtt 360
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 gccgtcgtgg tccagtgccg tgagcctgcg cg 452

<210> 34316
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-C1

 <400> 34316

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 tggggatcat cggcggcatg ctctgcatca tgggcaacgc ccagtatttc atccacaagg 180
 ccgcgcacgg caggccgaag cacatcggga acgatatgtg ggacgtcgcc atgg 234

<210> 34317
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-C11

 <400> 34317

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 gtacgggtga ccaaccgctg ggctcgcttc tcacctcttc tctgcgga acgatcacc 120

accatcttga tgctgattct ttggttgaca atttcaacat tactaccttt tatgaccctg 180
 aggccaagaa ttattaatcc tcccaggctc aaaggcattc caaaatctat catccattat 240
 tcaataatgc catcctcaac ctatcgacta gaacatgaat cagaacttgg actcaatgga 300
 cactgtgatc ggcatgatat tcaacaacat atcctcttta aaatccccct acattcaact 360
 tcatgaagcc ctcaccccat atgaccc 387

<210> 34318

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C12

<400> 34318

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 aaggctggac aagagaccca cgatgcctcc acagagtttg acaggaccga gaaggacatc 180
 actcccatgg gtggcttccc ccactatggg atcgtgaagg gtgactacct gatgatcaag 240
 ggatgctgtg tgggtccaaa gaagagggtg gtgac 275

<210> 34319

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C4

<400> 34319

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 ttccaacggc gagggggcga tcaacatagc ctctgctgct gctctcagca ttgatgacat 120
 tgtgctgcct cagtacaggg aacctggtgt tcttctatgg cgtggcttca ctctgcagga 180
 gtttgcaaac cagtgccttg ggaacaagct ggactatggg aaaggaggc agatgcccac 240
 tcactatggg tcgaaccgtc tgaactatct cacagtctcg tcacctatcg caacacagct 300
 ccctcatgct gttggagctg cctactctct gaagatggac aagaaggacg cgtgtgccat 360

cacatactttt ggggacggtg ggacaagtga aggagacttc catgcagcgc tcaacttcgc 420
 ggggtgctatg gaggcgccgg tgatcttctt ctgccgc 457

<210> 34320
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C5

<400> 34320

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 acacctggtg ctgatcctgt gcctccaggc cgctctggtc atgggcgtct tcgccgcttt 120
 ggctaaagaa aatgccctgg ttgagagcaa ggccatcgac atcaaccggg ggcagctcaa 180
 gtgctgcacc aactgcaact tctccttctc ggggctctac acctgcgacg acgtcaaaaa 240
 ggactgcgac cccgtctgca agaagtgcgt cgtcgccgtg cacg 284

<210> 34321
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C6

<400> 34321

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 caaaaaaaaa aaatagcatc atgtcggagg tgaaggactc caatgtgcct gctgcacttg 180
 atggaaatcc tcaacctatg gaccaaactg aagacaattc tatgccctca gcacagcaac 240
 aggaagaagc aatcaagaag aagtttgagg gactaatgcc caaaaagccc cactcatct 300
 caaaggatca tgagcgggcc tactttgatt ctgctgactg ggctctaggg aagcaaggtg 360
 ttgccaaacc caaaggaccg ctggaggcac ttaggcccac gcttcagcca acacgccaac 420
 aacagcaaca acgtgcaagg cgcctatctt acact 455

<210> 34322
 <211> 417
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C7

<400> 34322

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gcctgctgga tagtgttctg catgccgctc tgaactggag ctcttcacct gcagcttctt 180

tctcgcgttt catcattcag cgtttagctgg tgatgataat gttggggcga aggccaagac 240

gctatcattc gctcgatgcc ttcgtcgctt tcgtcgtctc gcttcaccaa cgacgccaaa 300

gacgccggtc caatgaggac ttcgcgactg gacttcgtgg gcgtccttcg cccttctcca 360

ttgcgagacg aaggcaagac tccgacgatg tctgctagcc tcacgtntct atcgggt 417

<210> 34323

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C9

<400> 34323

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cccatcgccg tctctgattc tggtcagtaa ggcttcgtgc cttagtgaat tctctcgca 120

tctgtagnat gttagtgttg ttgagtccaa aaaaaanaa aaaangggcc ggcacgcttc 180

ttagaaagga tctaagnca ttacgtatc gcgtgccatg cngactgnnt catagctttc 240

ttctaattag tnggtcacct taannattca tattcacttg gcannngtcg ttttaccac 300

ngnntcgtga cctgnnggaa aactntnctg gcgttaccac aaaacttaat cgccatttgc 360

agcacaaaat cccctattc gccagcttg gcnngtaat a 401

<210> 34324

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-D1

<400> 34324

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agtactgcac actgccatcg ctctcctacg gtactgctgc ctaccgcgcg tctcgtccct 180
tcgctgccgc tctatctatc tcggccggag ccatgggcgg cgggtggcgc gcgctgctgc 240
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ggtggaccgt catgggcaac cccgactacg ccgctgggc cagctccaag cagatcgta 360
tcggcgacac tgttgtgttc acgtataaca agcagttcca caacgtgctg gcggtgagca 420
aggcggacta caagaact 438

<210> 34325

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D10

<400> 34325

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ccgcatcgcc gccgcacagt gactgtccca gcgttgtttt gtgtataatg atcgatatgt 120
tgcttgtttt ccgaacaaat caaatgctat caaatatagt gatctgagtg atgagc 176

<210> 34326

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D11

<400> 34326

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ggaaagcatg ggtgtcggtg tcgctacgac ggtaacgacg cacgcggccg ggcagcaacc 180
ggcgatgtgg tcattttgcg ttctcgacat ggggacgacg acgggtgttc cgccgcacc 240
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gacgaacctg atcggttcacg cgccgtacat tgacgaggcc agtgtggcga ctgcactgac 360
gcttggggaa gtcccgaatc cggcaccgga tctgggggcg cctggggcgac ccatcatggt 420

<210> 34327

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D12

<400> 34327

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<210> 34328

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D2

<400> 34328

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agatgccgtt cttgacgctt gccttgctga ggaccctgac agcaagggtt cttgtgagac 120

ctgcaccaag accaacaatg tcatggtctt tgggtgagatc accaccaagg ccaatgttga 180

ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 240

gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatattgc 300

tcagggtgtg catggccact tcaccaagcg ccccgaggag attggagctg gtgaccaggg 360

acacatgttc gggatatgca ccgatgagac ccctgagttg atgcccc 407

<210> 34329

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D4

<400> 34329

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aaaggccgcc ccttttaaaa aacccaactt aactccccct tcattgcaac tcaaaacctt 180
 ttttaagggc tccccaaaat caaattactt gccctctttt taaaaactcc taacctggaa 240
 aaacctggc tttcccaa ataaaaccctt tcaaaaaaat ccccttttcc caacatggcg 300
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<210> 34330
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-D5

<400> 34330

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 tgcgtctcgg ccgcaggaac cggagcttcc gtcggaggac gacaacgact tcgccggcgg 180
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 caagtacatc ccatggcaca ttgtgaacaa aattctcaac atacatgctc cagagtggctc 360
 gggtgaggta cgcagcattg gttactcatt tgacgggaaa acagtatctg ttgtctatcg 420
 agtgactctt catgggaatg atgcanagat cta 453

<210> 34331
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-D6

<400> 34331

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 tagaataacg agcatactca aacgaccacc actccaagca caccatcatc gccaacctga 180

cggagagctt ctcgtactcc cacataccat ataaagagaa tgcctcggag gagaaccctg 240
 tccatggtac cattatgctc ttgcacatca tctggggata cgcatactaa catctaggaa 300
 tatgtggtga catacattgt ccaaagtctt ccaattcttg atgattactt ttttatcgac 360
 tgacttaac 369

<210> 34332
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-B8
 <400> 34332

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 catatccata ctaaattatc acatttaatc tacttacttg attattatat taaaatatat 180
 aatcctgcta caacctaaact tttcttactc tactcacata actttcaaaa catactcata 240
 catttcaata attcccaact acaataatct ttatacactt tatccactat ttatatccat 300
 attactcaaa tttttatc 317

<210> 34333
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-008-Q1-K1-D8
 <400> 34333

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 gcgccgcgct gccgcccag tgcgcccgcg accgcgacgt ctgatgatga tgcgttgggc 360
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tcagggttcgt cgtcgtgggt ctgcagagac ac 452

<210> 34334

<211> 446

<212> DNA

<213> Zea mays

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<400> 34334

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ttcttgagac atttgaaatt gagttgagag acatggcccg tgctttgtat gattcatagt 240
tggacgatgg tgatctaatt aaagcacgtg aacatctcag acagcaagtt aagcgctcta 300
tggaatcaga atccaatgca cttgctgtga ctctaataac acatttttcc atccaatgct 360
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<210> 34335

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A1

<400> 34335

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gctgagttca agtctggtgc agagaggaag gatgctgcgg agagcaccat gaatgcctac 180
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aaccttgcaa aacaggcctt cgatgaggcg atctctgagc tagacagcct gggagaggag 360
tcctacaagg acagcactct gatcatgcag cttctgcgcg acaacttgac cctatggact 420
tccgacacca acgaggatgg cggcgacgag atc 453

<210> 34336
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 34336

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cggcctccac aagggaaca tgcacaagga cggccaggcg gggcgggctg cggcgggccc  180
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cgtgtccctc acccgcgccg gggtcgagaa cctgctgcgc ctggagagcc tcgccgagcc  300
gtggctcgtg gtgctgtacg cgccctgggt cccgttctgc caggccatgg aggctccta  360
cgtggagctg gccgagaggc tggcgngtc cggcggcgtg aatgtggccc ggttcgcgc  420
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 <211> 455
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-A2

 <400> 34337

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gagcgggttc gggcgcccg agcgggacat cgacgatctg ccgcggaacg acgccaacta  180
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tcctaattgt cgggctgtct atgaagctca cttcgggtgc ccaatgtcag gagctgntgt  420
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<210> 34338
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-A5

 <400> 34338

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<210> 34339
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-A6

 <400> 34339

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 cggcgagcgc gagcctcggg cgcgcggcgc cgacggcaag cgggagtctg cggccacggc 180
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 caagaaccag gccgtgtact gggccggccc gatggtcggc gccgcccgtc ccgcgctggt 360
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 agctagtgtg caactgtgct gtgca 445

<210> 34340

<211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-A8

 <400> 34340

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cgtgccgcat tgggttggtc gagagctcct agtggtgccc tactacatga tggagggcga 120
tctccccacg cccgcgaacg ctagggttgt tgccgtggtc accggcggca acaaggggat 180
cgggctggag gtgtgccggc agctggcctg cagcggcgct accgtcgtct tgacagccag 240
ggacgacgcg agggggcgcg cgccctgga gaacctcaga ggccctggggc tctccgatgt 300
cctcttccac cgactggacg ttaccgacgc tccgagcatc gctcgactcg ctggtttcct 360
cgagaccggt ttcgggaagc tagacatcct ggtaaataat gccgcgattg gcggngttga 420
gtatgttcat ga 432
  
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<210> 34341
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-B10

 <400> 34341

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gaggatggct gcacaaggga ggaagcgct cgccttgggg gcggcagcaa agcaagccga 180
cgagtgtgc agctatgtgg cgagcaaggg cactgcgcg gtgtacacgg ccgacggggc 240
acggttcgag gtgcccctgg cgtgccttag cccccggtc ttcggggagc tcctacaaat 300
gtcacaggag gagttcggt tcacggggcg cgatggcagg atcacgcttg cctgcgacgc 360
ggcgatcatg gagtacgcca tgtgtttgct caggagagga gcctctgctg agctagagca 420
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 <211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-B11

 <400> 34342

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 agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgcctc cgtcctgcgt 180
 agtagtaaac aaaaggga aagtcttttt aaggaacttg tgatgctctg gctccttgtg 240
 ccattgctga gggacatcct tagcctttgt ttagtagtat ggtttggtac tttgttctgt 300
 catcactcgt ttatctatcc ctaatacatg ccgtcatgat tgtactccca atgacgcgca 360
 gatcatttgc tttgatttgt ctgctcgaac ctggaagtcg tctatgcttt tcagattatt 420
 ttgggcaaaa aaaaaaaaaac agggc 445

<210> 34343
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-008-Q1-K1-B2

 <400> 34343

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 aatctatggg caatgtcaac acaggcttgg ccgatgagaa aatttcgaag tgcgtgaaag 180
 aagtggctctg ctgcagttcc gaccagacgc aaaccgatca agatgaccag gatgacggaa 240
 gctgcgtcat ctgcctggag ggttacagag acaaggatat gctggggata ctgaaatgca 300
 ggcacgactt ccacgccggc tgcataaaga agtggctgca gacgaagaac tcgtgcccgg 360
 tgtgcaaagc cgnccgncgnc taggacgaca ccagaggagc gagcaactat ttt 413

<210> 34344
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B3

<400> 34344

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aggggatcac caggatgcag gtgcccttca gcttcaggcc caaggacttc ggatccgctg 180
tctgggacat gatcagggga aggggcacgg gatacaccat caagggaaag atcgatgtcg 240
acactccctt cggcaacatg aagctgcccc taagcaaaga ggggtggaacc acccgctca 300
agaaggagga cgacgatgac gacgacgaca actgaagtga ggactgctgg ggcgctgctg 360
ttacctttca cgaaacgcag cgaagcagag gatgcgggga tcgtcgtcga cctgataccc 420
atacccttag cgcttggttaa gctcttggtt ttagcttatg g 461

<210> 34345

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B5

<400> 34345

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ttctgatcgt caccatggc cactgccgag gtccagaccc cgaccgtcgt ggcgaccgag 180
gaagcgccgg tgggtggagac cccgggtccg cccgcgctcg tgcccagagga ggctgcccc 240
gccgccgagg ccaaggtgga ggagccagct gcccggcgag agaccgagcc agctgccgtc 300
gctgagcccc agggggcccc cgtggcggcg gaggaagaga cgccaaagga agaagagacg 360
gcaaaagatg cggagccgga gccggagccg gcggcg 396

<210> 34346

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B6

<400> 34346

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 agttctttcc attttcaacc atacttcttt cctttccttt attttcaact tatttcattt 180
 actttgctgt cctttaactt catttaccct gcctactctt tacatcatcc ccaatttaat 240
 aaactttcgt cttttccacc ttattccctt ttccatattt ccccttt 287

<210> 34347

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B7

<400> 34347

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 gttaagtatt gttttttggt gtgtggacgt gattcttcta gtgagatatg ttctgaagcg 180
 gcaaggtaaa ccctcttagt ctacttgttt aactttttaa atatacccat cggtttgaat 240
 gatgcaaaac tacaataatc ttcatgtact tgattgacta atgagttgga tatgattcgt 300
 attctatttc ttaaaaaagt aaggcagaag atagctagat tcatgatttg gcaaatacaa 360
 cctcaaatta acttgccat tcatcgatta tgttcaggaa ataatgtatc aattaattga 420
 aggaagtaat agtagtggct catctagaac 450

<210> 34348

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H8

<400> 34348

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 cttacactcc aagccccaag cctcccacac accctacgcc caagccgacc ccaccgacgt 180
 acacccttc cccaaagcct gcgacgcca agccgacccc accgacgtac accccttccc 240

caaagcctgc gacacccaag cctccgacac ctaagccgac cccgcctacg tacactccaa 300
gccctaagcc accggctacc aagccttcca cgcccaagcc gaccccgaca acgtacaccc 360
ctttgacaaa gcctacgaca cccaattcga accctgctgc gtacacccct tttttc 416

<210> 34349

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F7

<400> 34349

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gctgatccag gaaatgcatt tcttgtgcc tcccttact acccggttg ggataggag 120
ataaaatggc gaactgggtg tgagttgata cctgttcctt gtcgtagtac tgataacttt 180
aatgtcagtg tcaactgctct tgaaatagct tacaacagg caaaaagcg aggaataaga 240
gttcgtgggg ttctcatatc taacccttcg aaccaacgg gaggcattgt gccaaaagaa 300
atactgcatg accttctaca gtttgctgca gagaagaaca tacacttaat ttctgatgaa 360
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<210> 34350

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G1

<400> 34350

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agagggtggc gaagaatagt gtaacgatga taatggtggt ggttgagggc ctgaaacgat 180
gaacacatgg ggttgggttg ggtgtatgta tctgtcacac gcagcttttg tgcaagacta 240
ttatactaca tcgctggtcc c 261

<210> 34351

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G10

<400> 34351

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ttgttaatat aaaaaaggat aaagtacaaa aaaataaaaa ctaatatata ccaatataaa 120

cataattatc ttcaattctc tgttcactct attataacct tctgactttg aaaaacttac 180

ttttttctac ttaatccaac tttaaacata gtccgtttta ttcaattctt tttaactgaa 240

caattctgta cctttcccac ttataacat ttgtcagac ttctgttta atggaattca 300

tcttttatcg gcacattcat ctctacattc tttt 334

<210> 34352

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G11

<400> 34352

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attcttggcc aaggctatct gtacaaactt aatggcatta aggccaaaat ttacactct 120

tactatgaaa taccaatacc ccctacttcc cctattaatc actacttcca tcccgaagc 180

cccacaattt gaccagctta ctatgatggt atcccatgct aatttatcca gatcgattaa 240

ttgctattag cactctaatt tattcaaatt aacaacagcc ggacacacta accggccaat 300

ta 302

<210> 34353

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-G2

<400> 34353

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gtcgcacgac gaccggccgc cgatcgcca ggaaggatgt cgagcctcga ggagccgctg 180
 ggtctcggag acctgcctaa gttgagtatt aacagactcg ggcggttcgt gtcgctgggc 240
 gctcggaggc caccggccga cgacgacgac cacagcactg gcaaatacag cagcagctcc 300
 tgcaacaatg gcagccctca gatggcattc catcatggca gcaactcctn ctatccctgg 360
 caccgc 367

<210> 34354
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G3

<400> 34354

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 ggccctccgc gactcgcggt gtccaccggg actggcttgc cgctgccagg ggctccatcg 180
 cccagtaccg gctccggtac acaagcggaa ggcggccgag taccaagacg cagcagcagc 240
 gcgaggcgcc tgggtctccac ctctctctggg atcaccaccc aagaaaaggg tgcgcggcgc 300
 ataggcgacc actgagattt tattctctat ataacatttg gcttgcaa atctcaatgt 360
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 ggttctcac 429

<210> 34355
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G4

<400> 34355

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 ggccctccgc gactcgcggt gtccaccgcg actggcttgc cgatgccagg ggctccatcg 180
 cccagtaccg gctccggtac acaagcggaa ggcggacgag taccaagacg catcagcagc 240

gcgaggcgcc tgggtcttcac ctactttggg atcaccaccc cagaaaagg cgcgcgggcg 300
a 301

<210> 34356
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G6

<400> 34356

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gcactcccag gactttctga atgggtgtgtg cactaacatc atccatatgc agaacaagaa 120
gctaaagtta tatactggga attatgacca atacattcag acacgctccg agcttgaaga 180
aaatcagatg aagcagttca agtgggaaca agagcagatt gcatcaatga aagagtacat 240
tgcacggttt ggccatgggt ctgcaaagct tgcacgtcaa gctcagagca aggagaaaac 300

<210> 34357
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G8

<400> 34357

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gtcgtgggtg agcggatcga gatggcggcg tcggatgttg agtacgctg cttcgtcggc 120
ggcctcgctt gggccacgga cgaccactcc ctgcacaacg ccttcagcac ctacggcgaa 180
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccggcg cttcggcttc 240
gtcaccttct ccacggagga cgcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
ctggacggcc gcaacatcac cgtcaacgaa gcccgatccc g 341

<210> 34358
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-G9

<400> 34358

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gaggagaagc agcggcgagc cgggaggagg gagagcgaag atgcgccgag tcgcgctgtt 120
gctcgtcgcc gccgtgtgag cgctggcgcc gccggctgcc gcggtcgta ctgacggtct 180
tctcccgaac ggcaacttcg aagatggccc gcccaagtcg gcgctggtga acggcacggt 240
ggtgtcgggc gccacgcca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300
gtcggggcac aagcaggggg acatgctgct ggtggtgccg caaggcgagc acgcggtgag 360
gctgggcaac gaggcgtcga tccggcagcg cctggacgtg gcgcgcggcg cctactacgc 420
catcacgttc agcgtgtgag cgacgtgagc 450

<210> 34359

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H1

<400> 34359

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gtggtttgag tgacaccaca acgttcaaca ctctcattgt tgctctgtgc tcacagaatc 120
gacttgagga agcattggac cttgcacgtg agctaactgt gaagggactt tctccagatg 180
tctatacttt caatattttg ataaatgccc tttgcaaggc aggagatcct catcttggca 240
ttcgattgtt tgaggagatg aagagcagtg gatgcgctcc tgatgaagtt acatacaaca 300
ttttgattga tcatctttgc tcaatgggga agcttgtaaa tgctttggat ttattgaagg 360
agatggaatc caatggttgc cctcggagta cagtgcacata taacacaata attgatg 417

<210> 34360

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-H10

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 acactccaag cctcaagcct actacacact cgacgctcaa acctacctct ccgacattca 180
 ccctttcccc atatcctatt actcctaaac ctaccccacc gacttacact cattcatcaa 240
 agccttctac tctaatacct cctacac 267

<210> 34361
 <211> 203
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-H11
 <400> 34361

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 gttcccgctct actcgtcgtt cttgtcttcc gcgctccacc ttctttttct cctacttcat 180
 cttaatcgga tactctcata ttc 203

<210> 34362
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-H12
 <400> 34362

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 ccatggaaaa tatgggaatg gcaaaccatt ccctgtgaac ctaagtcttg ccgttggctct 300
 tagtggctgg cttccatgtg ccaggacctt gaagaacaga attgaagcct caccagagtg 360
 tgcacaaaag gttcatcaa tacctctttt gctctgtcat ggaaaagctg atgatgtagt 420
 tgcctacaag cacggggaga gatctgctgg 450

<210> 34363
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H2

 <400> 34363

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 cctcgacaat gtcttgttcc acatcatcca gttctatgtc aaggagttgc ctgacaacac 180
 cttagacttc ttcacctgt actactgtgt tcctcgtcac ctaccaagc ctgtctacga 240
 atccttctat gtcattct 258

<210> 34364
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H5

 <400> 34364

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactaaaaa ataaaataat aacaaatata 180
 ataaccttaa aaaaaaaaaa taaaattaca taaaaaatat aataacataa taataa 236

<210> 34365
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-H6

 <400> 34365

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 acgaccttgc tagaaaagtt gaagtcgac tacttgaagg gagaagggt tccgcatgat 120
 cgtattgttc caacagttgg ccttaattatt gggcgtattg aagatgcaaa tgtaaagctt 180
 gttttctggg atctgggagg ccagcctggc ctacgaacaa tatgggagaa atattatgag 240

gaagcccatg ctgtaatata tgttatcgac tctgcttctg catcatcatt tgaagatgct 300
 aaatctgctc tcgagaaagt tctccgtcat gaagatctgc atggagcgcc aatacttata 360
 ttgcaaaca agca 374

<210> 34366
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-H7
 <400> 34366

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 gactgccaat caagcgagcc accaggtttg agaataaggt gggatccaag aatgtagtgg 120
 ctggtgaatc actgatcaaa aagcggattt ttgagagatt cttcatcgat ctagtggccg 180
 gtgaatcact gatcaaagag cgagcagccg ccgggtttta tgattttgtg ggatccctgg 240
 atgtagcggc tggcgaaccg cttcttcttc cacaaagatt cagacaaaac cgagcttggg 300
 tagaactgaa gaagatttgg cgaacgaaga aaaaggtaaa agggtttcaa attaataaaa 360
 tagaaggagg ttattcaata tccattgcaa gttttattac ctttc 405

<210> 34367
 <211> 487
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-F5
 <400> 34367

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 gaaacgtgaa agcaagggtg tgagatatta atagcatggt agttaagaga tctatacaat 180
 tagatcttat ctacatctc cggagtatcg taaaccaagg tatatctgat atgcttggtc 240
 agcattctcg agtaatctcc tcagctcggg ggttccagcc tgaagatagc aggtagctgc 300
 agtagcttgc ggaatcttct actggtacat ggacaactgt ttggactgat ggacttacca 360
 gtcttgatcg ttacaaagga cgatgctatc acatctagcc cgttctctggg gaccagatc 420

aatatatctg ttatgtagct tatccattag acctatttga agatgggttct gttactaaca 480
tgtttac 487

<210> 34368
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D1

<400> 34368

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ccaggggttg cgggccgtta agcagaaaag ataactcttt ccgaggcccc cgccggcgctc 120
tccggacttc ctaacgtcgc cgtctgccgc cacgttcggc ctcgggaaat cttaacccga 180
ttcccttttcg ggtgactcgc gtgacgcgtc tate 214

<210> 34369
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D12

<400> 34369

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ggcgggtggct gcgtccttg cgctgctagc cgcacatcg acggccggcg ccgtgacgtt 120
cgacgcgacg aacacggcgt ccgatacccc cggcgggcag cggttcgacc aggccgtcgg 180
cctcgactac gccaaagcagg tcctggccga cgcgtccacg ttcacatctgga acaccttcga 240
ccagcccagc cccgccgacc gcaagcccggt cgacgcggtg accctcgctc tcgaggacat 300
cggcggcgctg gccttcacga gcgccaaagg gatccacctc agcgcgcagt acgtcggcgg 360
ctactccggc gacgtcaaga ccgaagtcac cggcgtgctg taccacgaga caacgcacgt 420
gtggcagtg gacgggcagg gccaggcgaa c 451

<210> 34370
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D2

<400> 34370

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gtgcagccat ggggtgcctgt gcaacgaagc ctaagacgct tgaggggaaa gccccagctg 120
aggccaccat ctccacaccc aaggttgcac ctgagaccac taccatccac attgaggttg 180
cggcaaaaca tgcagtagtt gagaaggtgg aggaggacaa ggaggaggca ctaacagtgg 240
cggcgaaaca agagccagca gccaccattg agcctcagca gattgctagt gaggtgacca 300
cttcggaagt ggcggtcgtc gttgtcgagc ctgagaacaa ag 342

<210> 34371

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D6

<400> 34371

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gcgggggcat ggagttcctg cagggccaga ggctggagac cacgctggcc gtcgcgggcg 120
ccgtcgttgc cgtcgcagcc ggctccgcct acctcttctt cgcagtagg aagcccaggg 180
gatgcctaga ccccgagaac ttcaaggagt ttaaacttgt tgagaagagg cagctgagtc 240
ataatgttgc caagttcaag tttgcgctcc caacacctac ttctgtattg ggtcttccaa 300
tcggacagca tataagctgc agaagacagg atgcttctgg ccaggaagtg atcaagcctt 360
atacttcaac 370

<210> 34372

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-D9

<400> 34372

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aagaaggacc acagggacgc cgaggaggcc agcggcgaga agaagcacca ccacctcttc 120

ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agctccggcg cacacaacca 180
 cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca ataatgagtc 240
 cctctccgga ccttggtagc tgcttgcttg tggtagtgga gagggtgaga ctgagggaga 300
 agaggtggtg ggcgtggggc tacgtcgaga gaggcgtgtt cctgtaatcc tgtactcgct 360
 tcgttttctc tgcattgcgtc tataattgtg ttcaataata agtgagagcg gtgtgatgtg 420
 tg 422

<210> 34373
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E1

<400> 34373

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 caaccaccac aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga 180
 ggtggtcacc gtcaccggcg agggcgagta cgagaggtac aagaaggagg agaaggagca 240
 caagcacaag cagcacctcg gcgaggccgg cgccatcgcc gtcggcgcct tcgcactcta 300
 cgagaagcac gaggcgaaga atgaccccca gcacgcgcac aggcacaaga tcatggagga 360
 agtcgctgcc gcggcgcccg tcgggcgctg cggctacgta ttccacgagc accacgagaa 420
 g 421

<210> 34374
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E1

<400> 34374

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa ataaataaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa ataaatatat 180

taaaaaaata attaaaataa aaaaaattga gttaccttat aaaataacct aactgaaaaa 240
acaatttttaa aaccaacta aattatctta taggaaat 278

<210> 34375
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E7

<400> 34375

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caactctaaa agcatccgtc ccttggcagc agcaacaagc tactagctat gtgtgttttag 120
agcgagcgag ggaaaaaaga aaacatctaa gatatactcc aacatcttcg tttgattaac 180
ccgcccagta aagccatggg tactaattat agagcgggtca tttctctagt actcctcgtg 240
tgcacgcgta gccgctcgtc cttgggtgcc gctgaaactg acgttgagca gaagcgcctcg 300
tcagtccttt tgatgtttgt gttcgggtgat tcgctggctg atgtcggaaa caataacttc 360
ctgccgccgt ctgcaccccg tgotgcatct ccgtacggca tcgacttccc ttctggcacc 420
ccc 423

<210> 34376
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E8

<400> 34376

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ctgacgcgct gggggactcg aggcaactcc acgcttgatg ggtgaacggc tgtggtggag 120
gacatgcgtc gtcagctgct gacctatgga cgaagaatta ctaccccgaga gctttttgca 180
agaatagatg ctgttgatgc aaacactgtg aagcgtgttg caaacggatt catctatgat 240
caggatgcta ctattgctgc tatgggaccg atccaaggac ttgcagacta ctactggttc 300
agacgcctga cctacatgct ccg 323

<210> 34377
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-F1

 <400> 34377

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 tacacccga ctctactcc ggtcaccccg acccgaagc cctagaagcc cccaccaat 180
 gggcctaatac cggacaagcc gtccaatgag cacaagccgt ccaaggagca ctgtcccaag 240
 ccggataatac cgtccaagga gcacaagcct acgccgtcca cgtacacccc gagccccaaa 300
 cccactccgt cgacgtacac ttccaccccg acgcccccca agccgacgcc aaccacatac 360

<210> 34378
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-F10

 <400> 34378

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 ctacgcttgc tgcgctgcac gtacctgcc ctgccatcat atcgtacgtg agcccggccg 120
 agcgagagcg agggagaggc atggctgctc cgaagctcgc gacgctggcg ctggccgtgc 180
 tcctggcggc gaccgtggtg gctcccccg ccgcggtgcg cgcggcgatg tcgtgttcca 240
 ccgtgtacag cacgctgatg ccgtgcctgc cgttcgtcca gatgggcggg gccatgccgc 300
 cccagccgtg ctgcggcggc atccgcagcc tgctgcagca ggccaacaac acccccgacc 360
 gccgcacat ctgcggctgc ctcaagaacg tcgtcaacgg cgccaacggg agcggcacct 420
 acatc 425

<210> 34379
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-007-Q1-K1-F11

<400> 34379

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ggttgcagac cttagcgcat cgagatggcg gactcgcatg ttgcgtaccg ctgctttgtc 120
ggctgtctag gctcggccac ggaccaccac tcaactgcaca acgccttcag cacctaccg 179

<210> 34380

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F12

<400> 34380

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aataccaatt aatctggatg tttatggctt ttctggtaaa tatgggttga cagaaattat 120
agcttctggc ttgagctggg tggtttcaga tcttgtccag tgccaaccag tgtgtatata 180
tacatTTTTA aggtcttgta acctagataa ttagtgtcaa cttcgaggct gcgagtccac 240
accttatcta ccgtgcttgt ctctttttct ttattttacac atgcatttat tttgcctctt 300
attgcattat gcccctttca ggatgaaaga tgctcgaagt tgaaaatata cccaatactg 360
cagaagggtt accttgaaag aattttgagg aaaccagaaa ttgatgcatt tgcagaggag 420
cttatgccgc atcaagaaag ctttatta 448

<210> 34381

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F3

<400> 34381

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caccggctg acctgagcga ccccttcgct tccactccac tgaagcgggc caaaagaagg 120
aaagaaggcg ggcaagcgac aggaaggagg agaagccatg gcgagcgacg gcgacgggaa 180
gggccgggtc gcgacggcgc cgggggcagg agggtagggc tacggctacg gctacgccgg 240
cttcgagggg gaggaggacc ggaagtgggt gccgtggctg gtgcccaccg tgatcgtcgc 300

atgcatcgcc gtcttcgctc tcgagatgta cgagaacaac tgccccaaga accggagcca 360
gctcggcggc gactgcgctc 380

<210> 34382
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C9

<400> 34382

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa agaaaaaaag 60
aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaaaa aatttacatt acataaaatt 240
caaatattaa atatataaaa aaatagccaa aaagataaaa acaaatcgcc attataaaaa 300
aaatcacaac cgaaaa 316

<210> 34383
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H11

<400> 34383

cccacgcgtc cgcccacgcg tccggcagca tcacaagcaa actgaagtca ctcacagctc 60
ggcagcttcc atccagaaaag gagaaggaaa caagctagtg gacaaccaac catgatcagc 120
gccaagaaga ttgctcatct cgccaagaag tggcagagga tggctgcaca agggaggaag 180
cgctcgcct tgggggcggc agcaaagcaa gccgacgagt gctgcagcta tgtggcgagc 240
aagggccact gcgcggtgta cacggccgac ggggcacggt tcgaggtgcc gctggcgctgc 300
cttagcacc cggcttcggt ggagctccta caaatgtcac aggaggagtt cggcttcacg 360
ggcggcgatg gcaggatcac gctgccctgc gacgc 395

<210> 34384
<211> 436

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H2

 <400> 34384

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 ttcgctgcct ttggcgccgc gctgctcat taagccctcc ctgcctgct tctccagaaa 120
 ggacgtcggc cgctatggcg ggatcaaggt gtacgccgtg ctcagggag acggggccga 180
 gttcgcccg aacaacaacc tggaggccct gttccaggtg gacgaccccg ggccgcgggt 240
 gcccgtcaag aagttcctgg acgtgaacga ggctctggag gtggtccgct tcgacatcca 300
 gtactgcgac tggagggcgc gccaggatct actcaccatc atgcttctcc acagcaaggt 360
 ggtggaggtc ctcaaccctc tggcgaggga gttcaagtgc atcgggacct tgaagaaaga 420
 gctcgacgag ctacag 436

<210> 34385
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H5

 <400> 34385

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 aagggaaaaa aaaaagagaa ggaaaaaaaaa aaaaaaaaaa aaaaaataaa ataaaaaaaaa 120
 ataaaaaaaaa ggcccttcct tttatttaac ccaatcttcc tttccctca attcaactca 180
 ttaatTTTTT attatgttca cctaatttaa tttcatatc ttttttt 227

<210> 34386
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-H7

 <400> 34386

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 ggacatggcg aagctcggcg agcaggcaga gaggtacgag gaaatggttg agttcatgga 120

gaaggtagcg aaaactgttg actcggagga gctcactgtg gaggagcgca acctcctgtc 180
 tgttgcatatc aagaacgtca ttggagcccg cegtgcctca tggcgcatca tctcctccat 240
 cgagcagaag gaggagggtc gaggcaatga ggaccgtgta acactcatca aggactaccg 300
 tggcaagatt gaaactgagc tcaccaagat ctgtgatggc atcctcaagc ttctcgaatc 360
 tcaccttgtg cegtcttcca cegtcccgga gtccaaggtc ttctatctca agatgaaggg 420
 tgactactac agat 434

<210> 34387
 <211> 104
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-006-Q1-K1-H9
 <400> 34387

gcgacctatg gacctgcac agactgctcc ccctaagttg gccgatattt atgttacata 60
 gaatggtagc cctggtctat ggttaatgaa cgcgctgtac aact 104

<210> 34388
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-A11
 <400> 34388

tcccacgcgt ccgaaaaaat ttaacacctt tacaaaaaaa aacaaccaa aagaaaaaaa 60
 tgaacactaa ccaaccgtac taagcttcta caccatacct aaaattcact cacaacata 120
 acatccctct tattaataaac taaacccaat ctattgaccg taaactatct aattcttaca 180
 ctacgaaatc tcttccattt cccaatttat ttcctttatt tataccgaca cattcactaa 240
 ttttcaaact cttatacaaa ccaactottt tttttgaacc t 281

<210> 34389
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3068-007-Q1-K1-A12

<400> 34389

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gaaaaaaaaa aaaaggaaaa aggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa atgaaaaaaa aataaaaaaa agaacatatt ttaaaaaaat ttaataaatt 240
aaaaaaaaat ggatttaaaa aaaaaaaata aattttaaata aaaaagatat tattaataat 300
taataaaaat aataaaaaga taataattaa taagaaaata aaaaaattta aaaatataaa 360
aaaataaaaa 370

<210> 34390

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A4

<400> 34390

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gagtctgaat ttcagttgtt ggtatcaaaa gccatttctg agggatgggt agattcttcg 120
tatgtgaact caggtgtcaa cggaagcggt gaagacgatg aacatgagaa gctggctagg 180
tacaagaggg aggctgtatc cataatacac gaatactttc tctctgatga tacaacagag 240
gtcatccgta gtgtcaaaga gcttgggttat ccggaatata atccgatctt cgtcaagaag 300
ctcataacaa ttgctatgga ccgcaagaac agggagaaaag aaatggcatc ggttcttctt 360
ccttcattaa acatggagct gttctcgtct g 391

<210> 34391

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A5

<400> 34391

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tccggcgtct cacgcgcgga tgagggtccgg atccgggtgc accagggtcac gatccggggc 120
 tgcgcccgca cgcgcgcgcg cgcgggtcgag gcggcggtcg gcccgacgt gtcgcgcgcc 180
 gtcaccgtgc gggacctcgt gcgcgccgcc gtcgcgctg gtgaccggct ccgttgctc 240
 gggccttcg acacagtctc catcaccctc gacgcggcgc cgtccgggat ccttggcagc 300
 gctgtcgtcg tcttcattga tgttgcggag gccc 334

<210> 34392
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A9

<400> 34392

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 gtaccgatgg agccgctgat gatacatcaa cgctgtctga ttgtacacct aaaccaaagc 120
 gagggcgtcc tcttggccca aagtcatcac agaagaaggc tgctggaaag gatcaatctt 180
 caggttcaga tttgaaaaag gtcaatgagg ctggtgattt agccggaaag ttggcgaaac 240
 gaccagcgaa ggatgagaag tccacaaaga aggttggtga aggagaatca tctaagaaga 300
 cccaaaagta caattcaaaa caacagaagg atgaaaacct atctgaggat cctgccaaag 360
 atctgagctt aaaggaaatg ataacgcaa aatct 395

<210> 34393
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B12

<400> 34393

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 gtctcaggaa atgtgtgtaa ggaggaacat gggggagttg aatgagtctg caatcggtgt 120
 gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatttt 180
 ttcaaccggt gtcactcgta tagtggtgtt ggggtctctt agacaaactc gggacggttg 240
 cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaataatttt 300

gaacatgctg ccacctaadc aaaaaatttc atgttttaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aatattatat tattaataaa 420
 aaaaaaagg ggcggccgttt taaa 444

<210> 34394
 <211> 163
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-B7

<400> 34394

aaaaaaaaa aaaaaaaaaa aaaaaagaat aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 60
 aggaaacata caaaaggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaccaaaaaa aaacgtcaac cttaactggg aaaccctttt cat 163

<210> 34395
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-007-Q1-K1-C10

<400> 34395

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 ccctcgccac caggagctag cccgttgctt gcaagcctcg ccaactgccg ctatatatac 120
 gcatacaagc gcgcgccgcg cacgcgcagc acgcaatcag aacagtgggt gctggagagc 180
 gcgcggggccg ggcaaggagc aaggacgagg gattgtcgat ggtgttcttc tgcttcctgg 240
 tggagcagcg gcggacggtg cggagcagca agccggcggc ggggatctgc tcgcgctgcg 300
 gcgggtgcgc cagcgtggcg gacatggaga ccgccaccag ggtctgctac ctgctcaccg 360
 tgcaccgncg cacctggcg cccatcatct gcaccttctg tggcgccatg ctcaagtect 420
 accgncacta caggctctac tgactctc 448

<210> 34396
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C12

<400> 34396

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ttctagctcg ttgcattatc catggctgag gagaagcacc accaccacca cctgttccac 120
cacaagaagg acgaggagca ggccgcggcc ggcggttacg gcgagtccgc cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctccggcagg ccggcgccat cgccgcgggc 300
gccttcgcac tctacgagaa gcacgaggcg aagaaggacc cggagcacgc gcaccgtcac 360
aagatcgagg aggaggtcgc ggcgggcgcg gccgtcggct ccggcggtt cgccttccac 420
gagcaccacg agaagaag 438

<210> 34397

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C4

<400> 34397

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gtcataaatc cgtgccatgc aaatttgtga agagcggagt tgtagcaaa atgaagccac 120
ctaggatcta cattttgtcc atgcacattt cgtttttctt ggtcatactt accttagagt 180
agcaatgtag tagtggaat gccttaacag ggttttagtag catggaaatg ttttggtggt 240
aaattaatga attaacttga gatgtactag tttgtagttt gcacataccg tcgtgtcaat 300
gtcttttata ttgaaaaaaa aataataaaa aaaaaaaaaat aataaaaagaa aaattaaaaa 360
tttaaaaatt ttaataac 378

<210> 34398

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-C5

<400> 34398

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aggagtacgt acagaacttg ggacatggaa accgtcgtgg gcgacctcat ggcgaccgag 120
ctgaggcttg gcctgccggg caccgtcgac gactgcagcc agccccaact ggtgaaggcc 180
acgccgccgt cgacgccaaag gggcaagagg cgcgccaccg ccgatgccgt ggaggaagcc 240
gccggcgccg aggaggcaag caagcgtgac gccgagacgg cggccccggc agccaaggcg 300
cccgtggttg gttggccgcc ggtgaggctg taccggaaga gctgcttcca gcaggccagc 360
agcaagcatg cggcagcggc caaacaggaa gcggc 395

<210> 34399

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-E6

<400> 34399

cccacgcgtc cgaaaaagaa aaggcaaagg caaaggaatc ccaatcaggc aagcaaaagg 60
gagaaccagc tgctgcggag tgcggagatg tcgtcgcagc tgatcgagga gcaccggtcg 120
ggcgcggagg tgcacgtcgg gcacgagctg tgcgagcgca agtcgcgcga gttcatggtg 180
gagctgggcc tccccgacgg gctcctcccg ctgccagcc tggacgaggt gggctacaac 240
cggctgacgg gggtcgtgtg gctgcggcag gccgccggcc tgaccacac cttcgggtcc 300
atcggcaagc aggtgtggta cgacagggaa gtgacggcgt tcgtggagcc ggggcggatg 360
cacggcctcg ccggggtgaa gagcaaggag ctctcatct gggtcaccat ctccgagatc 420
g 421

<210> 34400

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-E9

<400> 34400

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gacagagggg agaaatacac tgacgagtgt taggtggacg tgggccatgt tgctgctgct 120

gacgaggctt cgcgacccat agtaaacgca tacaacagat gacctgactc gtccagctgc 180
 aggcggcgtc aggccttccga cgctacttct aactccgttc gcctccagtc gacaccgtgt 240
 cccgctggca cgctgctca gcaggttaac acaatttggc ccagtgttta attgaatcct 300
 gcttgctgca ctgcggacaa ccatggcgtc gtcgaaatctg caaatgtctg ctgacgacag 360
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<210> 34401
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F1

<400> 34401

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 ggcaagccaa aaggttatgg cttttgcgag tacaaggacg aggaaactgc tctaagtga 180
 cggcggaacc ttcagggtta cgagatcaat ggtcgtcagt tacgggttga ttttgctgaa 240
 aatgggagga aactgacag aaatagagaa aaggtcgacg atcctcaaatt ttttactgta 300
 gaagagcctt tcctaccacc tttggagttc tctgttaatc tgagaagttg tattgtcttc 360
 gttctgtgaa tgataatagt tgcgccttct tcaacc 396

<210> 34402
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F12

<400> 34402

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 acgacggtga cgacgacgaa cgcgggcgct cctgtgtgga acgacaacga ggcgctgact 180
 gtggggcctc gcggtcccat cctgctggag gactaccacc tgatcgagaa ggtggcgcac 240

ttcgcgcgcg agcgcacccc ggagcgcgtg gtgcacgcgc gcggggcctt cgccaagggc 300
 ttcttcgagt gcacccacga cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgccc 360
 ggcgtgcgga cgcccgtgat cgtgcgcctt tcgacggtga tccacgagcg gtgggtccccg 420
 gagacga 427

<210> 34403

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F4

<400> 34403

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 ccagcgcaaa gcgatggcgt cgctcaccat gatggcgctc ttccgcgcgc tggcggtggc 120
 cgcgcctcgc cgccgcggca ccttcgccgt ggtcaggctc gccaaaggctg accgctgcc 180
 ggagcccgcc acgctagcag caaccgaggc caggcccgcc gccgacggac gccgcgccgt 240
 catgctcgcg gctgctgcgg cggccgtggc agccatcggc ggcgccggcg ccgccatggc 300
 gggccccaag aacgggaccc ccgaggcgaa gaagaagtac gcggccatct gcgtcaccat 360
 gcccaccgtc aaggtctgcc acaactgagc acgcccgcgt tgcattgc 407

<210> 34404

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F5

<400> 34404

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 cgaattgaag catgagggaa tcgattaatc gtccgcctac gccgagcgcg gtggaggatc 120
 gggacaagga gccttctctc gtagaaatca ttaacatcaa gttttagtag agtggagaga 180
 aggagaagct gacggagctc ctccgcgagc ggctcgtcga gtgcggctgg atggatgaga 240
 tgaaggcatt ctgcaggac tatgtaagga agaaaggaag aaataatgtg agggtagatg 300
 acctcattca tgttattgtt ccgaaaggaa gagcatcagt gcctgcttcg gtgaaggcag 360

aactcctgca acgtatccgg tccttcattg ctaccacact ttggtagtca tttatcgtga 420
cggttgagac taca 434

<210> 34405
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-006-Q1-K1-F6

<400> 34405

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cttcagcttg cggaggacct ggggtctgcc ccaatctggg tattcaacaa tgggaataagc 120
cacaatgatg aagttgatac tgtagctatt gccctttttg taaaggatgt attggacagt 180
ctggaatttg caagggggag tgcagattca acatggggct ctgttagggc tgcaatgggg 240
caccctgaac ctttctctgt caaacatgtc gcaattggaa atgaagattg cgggaaaaag 300
ttctaccgtg gtaattacct caaattctac aatgctataa gagaggccta tccagacatt 360
cagatgattt caaactgtga tggttcatct agaccacttg accatcctgc ggatntgtat 420
gatttccatg tc 432

<210> 34406
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-006-Q1-K1-F8

<400> 34406

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atatctacac ggggaagagc ctgcagaagc cgtggtacct ggtgctggga aaccatgact 120
acaggggtga cgcgctcgcg cagctgagcc cggctctgcg gaagatcgac agccgggttca 180
tctgcatgaa atccttcgtc gtcaacgcag aaatcgtgga gttcttcttc gttgacacca 240
ccacgtttca actcaagtac tggactcacc ctaaggatga tcactacgac tggagagggg 300
tggcgccctc ggaaaaatac ataaacaatc tgctcaagga tttggacggn gccatcaaga 360

gatcgactgc ggcgtggaag gttgccgtgg gccaccatac catgaggagt gtcagtgatc 420
atggtgaca 429

<210> 34407
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F9

<400> 34407

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tcgacactta tatcgagctt gacattgggtg accacacatg cgatgatcac cacaagctat 180
tacttgcata tctagggatt ccaccctatg aactgtcccc aggttgatcc tacaatgggtc 240
acacatcatt cagatgatct gctcaaagct cgagatgaaa cgctccgtac cgaccagata 300
caacttatac cggttctcac tgatctcacg tgcgtacact cgccatttcg atcgatatgat 360
caccatcata tctc 374

<210> 34408
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G1

<400> 34408

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gtgcgtgcc a tctgttagat ttttctgttc ttttaacaac cctttgggtat tactatatta 120
ggagatcctc ggtgactgtg gccgagctgc aatccagaca caaggctcca tgaacaatcc 180
atltggatca acttttgtat atggttatca gaatatcgct ttcgagggtga tgaaaaacgg 240
atatattgca actgtcacc tcttccaatc atgagtgtgc cactacatgt gctgctgctc 300
tgagctctgg ctgcaacaat ggtgggttaac ctgcagaaaag gaagtatgcc gtacttttgt 360
gcttcagcag cagcaatttc gagtcgaagc caactctatg gggcctgggtg acgggtgcttg 420
gtttatggaa tggga 435

<210> 34409
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-G10

 <400> 34409

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 gctttgcgcg gctcggctac ggcgcgccgt ccgacgcgca gatgttcacg aagggtggc 120
 tgttctatcc gtacggcgcg ccgttgccgc cgggtggccgc cgaaatcgcg ccggatcacc 180
 cgcgcggttt ctggctgacg cacgcgcagt ggccggcgt 219

<210> 34410
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-006-Q1-K1-G11

 <400> 34410

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 ggccgcgtcg ggaggcagca gcggcgggcg gtggcgggat cgtcgccatc atcatcagca 120
 gcagcaggag ctggtgctgc gtcggctgct gccgatcaac aaggccaagg cgtgccggtt 180
 caagcgcagc tgcttcagcg aggaggacga cgccgtctnc ttcgccatgc ttctgctcgc 240
 ctgcgtcgtc tgcgccccct ccctttgatg gtgataaaaa tacttttgat tactttggcc 300
 gcctgcttgt aactaatcaa catgtggatc accatgtgat gccatgacct atgcatgtca 360
 gtct 364

<210> 34411
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-G12

 <400> 34411

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 tgcgaagagc ttactttgga gaaatagaag gaacatgtat cacacgcgcc aaatttggga 120
 acgtgccaca tgaatattcc acaatagtag gtattgaaga atccatacaa gaaattttac 180
 taaatttgaa agaaattgta ttgagaagta atctctatgg agttagagac gcatcaattt 240
 gcgtcaaagg tcctagatac ataaccgctc aagatataat cttaccgcct tccgtagaaa 300
 tcgttgatac gacacaacct atagctaact tgagagaacc cgttgatttc tgtattgagt 360
 tacagatcaa gagagatcgc gcatatcata cggaactcag aaagaactct caagatggaa 420
 agtatcctat agatg 435

<210> 34412
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-006-Q1-K1-G2
 <400> 34412

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 gccatgtagc ccagcgggtcc cccctcggtc tcaccggcgg cggcggcaac gacggtgaaa 120
 actacatcgg gtgctagctc cgacgggtgg gcgtgccctg ttgacgatag ggcacgcggg 180
 gcgcggggcag cttgtaagcg ttcgatcggc catgtagggc aactatacat ctttggcagg 240
 tctccatcat cctccgtggg agagaagatg gtaatggagt gcgtgtgtat gtatgtgtat 300
 gccacggggc gcgcgcgcgc gctctggggc agtcacagta gagatgcaat atcatgtatc 360
 cagtatcttt cttacaacac anacagtgag aaattattag taaagtgtgc attgtgggtgc 420
 a 421

<210> 34413
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-006-Q1-K1-G3
 <400> 34413

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tgccaggaga acgccgcgat actgcgggag ggcacgcgg cgacgggccg cttcgacgtc 120
 ctgtccaagg acgccggggt gccgctggtg gccttctcgc tcaggacag cagccggttc 180
 agcgtgttcg acgtctccga gaacctgcgg cggttcggct ggatcgtgcc ggcgtacacg 240
 atgccggccg acgcggagca cgtggcggtg ctccgagtcg tcgtcaggga ggacttcagc 300
 cgcagcctcg ccgaacggct ggtctcggac gtcgcgaaga tcctgcgcga gctggacgcg 360
 cgcgcgaccc acgccgtgag ggtcgccacc gtcaccgtcg agcagtcggg cgacggcgtc 420
 gtggccaaga aaagc 435

<210> 34414

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-G4

<400> 34414

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 ggccgccagt tctgaagagg gctatggaca acctattcgt gttaatgaat tggctgatcc 120
 tctcgacgt tatgctgac tttcgacgt gtcactgctg gctacggcct tccagctgcg 180
 gtgttattct gcgaggctct gatagggatg ggccacatct cttcatgata gaacctgac 240
 gagcttgcta tacatactat actgctgcat tcaccaag 278

<210> 34415

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C10

<400> 34415

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 ggcacattag atcacaactt ttgcccctct tctctaaaac ggaagctcat gttcatttca 120
 gcaattcagc ttcaaccatt tggcattcat gtaatatctc atacgagtta aagggctcat 180
 acctaatcaa gtctgcgggt ctccaattct gaaatacaaa gataatttat gttctcatct 240
 ttctgaaatg aacaagatga ctggcttatg ggttaagggt tttttataga gcaccatgac 300

ttatcaggta aagttatagt tgtgcacaaa atgtcatttt ttaatcctta atgctgtgtc 360
tattcacacc tgtcttctct tgcagttctg tgaacaaccc taacttatgt ggtcctggca 420
ccac 424

<210> 34416
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C12

<400> 34416

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gaccgatcga ccttcacgcc agtctcggtc tcttcgaag gcgtcgcgcg cggttgtttg 120
agaggagagg aggaagatga gggagtgc atccgtccac atcgggcagg ccggcatcca 180
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240
agtcctgga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300
gactggtgct gggaagcacg ttccccgtgc aatcttcgtt gatctagaac ccactgtgat 360
cgatgaggtg cgcactggca cgtaccgtca gctcttcac cctgagcagc tcactcagtg 420
caaggaggat gccgctaaca atttcg 446

<210> 34417
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C3

<400> 34417

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aaggaagggt aaaaaaaaaa agaaaggaaa aaaaaataat aaaaaaaaaa aataaataat 120
aaaataaaac taaaatatat aaaaaaatat aaattaaaaa tatattaata at 172

<210> 34418
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C5

<400> 34418

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ccgggaatac acctaagagc tactctttga atatgttcaa agatttcgtt cctatgtgtg 120
ttttctccga atctaacc aa gggaaacttt catgtgaagg aaaagtcgag cataaatttg 180
acatggaacc tcacagcgat aatttggcga actatggaaa gttatgccgt gaaagaacac 240
aaaagtacat ggttaaactc agacaagtgc aggtacttga caatgaccat ggaatgagca 300
tgaggccaat gcctggcatt gttggtctca tatcttctag ttcaaaggaa aagaagaagc 360
aagcaccagt gaaaccatct gatgcaaaaa gaactcgtag ggatcgcacg gagatggaaa 420
acgttatattt caagc 435

<210> 34419

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C6

<400> 34419

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aaagaaaaat ataaaaataa gtgaatgatc tataaatata ttataaata tattaattta 120
tctttttttt atcctttttt atcttatttt ataatttttc tattttaagt taattcttcc 180
tttttttttc acacttttcc ttataaaaa ttattttctt attctatttt aatttatatt 240
ctttaaatat ctcatTTTTT caatctttat tctatacaat tttttctact ttt 293

<210> 34420

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-C7

<400> 34420

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ggcgaccgcg agcagcggat ctacctctgg ttcgacccca ccaaggagta ccaactcctac 120
tccgtectct ggaacctcta catgatcgcg ttcttcgtgg acgacgtgcc gatccgggtg 180
ttcaagaaca cgagcgccga cctggggcgtg cgggtaccgt tcagccagcc gatgaagctc 240
tactccagcc tgtggaacgc cgacgactgg gcgaccgcg gcgggcgcgga gaagacggac 300
tggttcaacg cgcccttcgt cgctcctac cgcggcttcc acgtcgacgg ctgcgaggcc 360
tncgcggagg cgcgcttctg cgccaccag ggcgcgcgct ggtgggaccc agccgag 417

<210> 34421

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C9

<400> 34421

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gagcgatcgc ttccacacgc cttatgcaaa cgagcaagca gcccggtttg ctaatggtgg 120
tgcataccct ccggacctta gtctcatcac aaaggcaagg cacaatggtc agaactatgt 180
tttcgctctt cttactggat atcatgatcc acctgctggg gttcagattc gtgaggggtct 240
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agctgttgag tatgaagatg gtacacctgc aactgaagcc cagatgggta aggatgtcgt 360
atcattcctt tcgtgggcag cttgacctga gatggaagag agaaagctga tgggagtga 420
atggatcttt ctactatcac tagcgcttc 449

<210> 34422

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-006-Q1-K1-D1

<400> 34422

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tatttatgaa ccgttcttaa ggttggttatg gaaaggcaac tggtttgtac aagaaaaaag 180

ttgtaagata ttgactgtta taattagtgc acgaccaaag cttcagaatg gcacacttcc 240
 aaatggagat gcttcgaatt cgaagagcaa gcttacttca acacacgatg tattgagagg 300
 tttggttgat tggctctgtt cacagctgag gaatcctaca cacccgagct gctctattcc 360
 tacttctatc cattgnctct ccactttgct aagagaacca tatgttatga cattatttgt 420
 tc 422

<210> 34423
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D3

<400> 34423

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 gagttgtgtg tacggcagta acggcacgag caaatattta tgttgctcta cctcatatgc 180
 ttaatgtgta attcagtaaa tatccattaa tacagaccat aatggaatta ctagaaactt 240
 atattctcat attgtgctat atttatattg atgttttcaa tggttattac actttttata 300
 gaactttggg tagaggagct catttgccat tgttccttaa tatgcagagt aaattgtcga 360
 gagccatttg agctaatttt tagtcaacca cctgttcgag ttagctgttt cttc 414

<210> 34424
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-D5

<400> 34424

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 tgagagtcgc gtgagcagcg aagcagttca cggatggttg gatggagggc aatgaccagc 180
 tgctgagctg ctgctgctcc tcttggtcga ccatcagttt gtatttgtcc atgcctcgtg 240
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gcgtggacag agaccggcaa gtcagagatc ggcaatagt agctccagca ggagcctact 360
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 cgttcttc 428

<210> 34425
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-006-Q1-K1-D6
 <400> 34425

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 aggcaatgca atgcagctct tgtttccttc ttcccgtaga gaaaccgtac tagctgtagc 180
 tgetgaacgt ttgagtcctt ctgctgccac ccttatctcc attgtgccgt ctaacctcct 240
 tgcttcccct gtgtgaatct gtacggattt tegtgttctg aacctgatt gcagttgaat 300
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<210> 34426
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-006-Q1-K1-D9
 <400> 34426

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 gtaccacaag ccggtatgga gaaggcacac ggctgcact gatgactccc cacacgaagg 180
 tccttctaca gacgattccc catcgtggca gtgctccacc attcgatcct gaaaggatac 240
 tgagctcact gtctacggtg ctgaactctg tegtctgtgt taactacagg catgtgcttg 300
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<210> 34427
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E1

 <400> 34427

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatgggctt cctattttaa 180
 aaatccaaat ttttattcac cttttttattc atttataatt ttttataatg attccccaaa 240
 ttaatttaat atgtacttta ttattaaaac tttttttctg aaaaaaccct tccttaccca 300
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<210> 34428
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E3

 <400> 34428

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 ccgtcccttg cggtgccaaa ggggaggaga accagggggc tcgtggtgag ggccgccacg 180
 gtcgtgtcac ctaagtatac atccataaaa ccattgggag acagagtact tgtgaagatc 240
 aagacctctg aggctaaatc tgatggaggg attttacttc cagtatcagt tcagacaaga 300
 ccacaaggag gggaaattgt tgcggttgga gaaggagaa gttttggaag taaccgcatt 360
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 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E4

 <400> 34429

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tgtggatgga ctgttcgctt ggcttttgcg gattgaattg gagctgcact tgtagtttgg 180
taacgtttat atacataact atgcggattg cgttacctag aatatgtctt ccagttacctg 240
ggtgacaatg ggctctaaat tttagagtgt tgtagatttg ttttggtgca aatgtggcat 300
ggcatggctt ggcttcgagc ttcgagtact ggctggttga gatccttggt ctgtttgcag 360
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<210> 34430
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-006-Q1-K1-C1
<400> 34430

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acttttcata gacatcctaa ttgatattatt atttcataca ccaaatacgt catccttata 240
aaaaacacca cagtcaatgt ttaattctct tcaatacaac aactagttca cttacaacta 300
cattatcctt taaccatatt atttacctat tctaacttta cattctttta ctgtcaatct 360
aaaataataa tcat 374

<210> 34431
<211> 538
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 34431

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cgtgatgggc cgaattgggt ttatntgann ttttgggatt ggttggtcgt aatatttctc 180
caagaacctt gggccagcta tggaggggtct tcttggcctt tcttttgcaa ctgaggatta 240
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taacgaattt gcaaaggacc tgcgaaagat attctcatcg atacaggact tggatactga 360
aatcatagtg gcaacagcaa ggacccctga tgctacagca gtatctgcta atgttgctct 420
tgatgagagg cagatgaatg ctctatttct tgatctggtc aaggtgagcg agtcttacgg 480
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<210> 34432

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G6

<400> 34432

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gacggtatat tctaataaat tttataagat tattatatat ttatatcaaa atatcttcaa 120
taacattcaa caaataaaa 139

<210> 34433

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G7

<400> 34433

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<210> 34434

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H1

<400> 34434

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gcgggtgctgc tgctggcagc ggcgggcagc acctcggagg ccgccatcac ctgogggcag 180

gtgagctccg ccategcgcc ctgcctctcc tacgcccgcg gcacggggtc cggcccctcc 240

gcgtcctgct gtagcggcgt caggaacctc aagagcgccg tcagcaccgt cgtcgacagg 300

cgcgccgtct gcaactgcct caagaacgcc gtcaggggcg tcagcggcct caacgccggc 360

aacgccgtca gcatcctctt caagtgcggc gtcagcatcc cctacaccat cagcaccttc 420

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<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H11

<400> 34435

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aacttgtagc atttaagaag ctcaaagatg ca 152

<210> 34436

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-H9

<400> 34436

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attagaggct tgactcctcc aaattaaact cggcgcacct ttgctacaat ttcagctcga 180

tgcttacatg aactcgtcgc tgtcactgct cttacaatct acgccttctt cgctctactc 240

atatctcgat gatcgcatag actgacacaa gacctactc agatccagca agaaactcca 300

tggaaccaa tgctggtatc tgttctactt tctgtacctg ctaggtttga tacgatacca 360
ctgactacga caatacatc tctgtttacg atcaacatga gtagacaaat atatgatcac 420
aatgactc 428

<210> 34437
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A1

<400> 34437

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atgattttct ttttgttgct ttattttcga tacatgtaaa tgtcgaataa ctagccgtga 180
gaattgagag ttcaagccta tagagcttga tatgtttgat caaagtaa atgtatcttctt 240
aaaaacatga aagtcagggtg ctttcttttt ttatctctta taaaaagcac aaagtgatgg 300
tgatggtttt ctgtaaaaaa aaaaatattt atatctcatt cattatctta actttttaca 360
atacatttat aatttggtat ttt 383

<210> 34438
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A10

<400> 34438

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ttcggcctcc tacggatcca ctctgcacat gcacatagct gaggctaata tcttgatga 180
aacaccatat gtatcatggt gcttgagaa ttaactatct acaatgctaa ctgtgtctct 240
cttaacagcc ttattaactg cttgcagtgc gcgatatgag cgatgatgac cgaaaccttg 300

<210> 34439
<211> 451
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A11

<400> 34439

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aatgccagcc ctgtgcttcc tgaagatcgc aaaaaacaaa gcaacctgtc cacagggtgat 180
cgcgagcgtc ggtatcgtaa tactggggcgt cgtcagcgcc gcgctgggga cctactcgtc 240
cgtgaaaaag atcgcagaaa actactaggc actgggggaca gtttctctcc gcagaggcta 300
ctaccacacg gttgcacgta cgtccggccg gagctgggga atggtcaggg ttacgtaca 360
cgatctcaaa gttttgctag aactaccgaa attccctgta gattattact ggtatgattc 420
ggaccacaat agtctactta tacaacaaaa a 451

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<210> 34440

<211> 332

<212> DNA

<213> Zea mays

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<400> 34440

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tcccaaataa taccatctcc taacttcctg aacacagcac tcaacaaagc aacctgcaca 180
aaggatgatc agaccgacca catccgaata catagcatat tcagccccaa gctctaaacc 240
tactcaccct caaaatatat cgcataacac tactatacac tcgaaacact aatctatccc 300
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<210> 34441

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A2

<400> 34441

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 aaaaaaaata aaaaaaaaaa aaataaaaaa aataaaaaat aaaaaacaaa aatattctaa 180
 ctatataaaa gatcttaatc acttatacta 210

<210> 34442
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A4

<400> 34442

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 cacggagctg gagacgcggt accaggactc cgggcccagg tgcccgtgtg gggaggacat 180
 ctcgtcgggg atgcggcggc tcgggtacaa ccggagcgcc aagcgctgca aggagaagtg 240
 ggagaacatc aacaagtact tcaagaaggt gaaggagagc aacaagaagc gccccgagga 300
 ctccaagacc tgcccctact accaccagct cgacgcgctg taccgcagca aggcgctcgc 360
 gtcgctcgctg tccggggcccg gtgcagctcc ggcgct 396

<210> 34443
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A6

<400> 34443

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 aaaaaaaaaa aaaaaaatc aactaaaaa tacacactaa aaaaaacaa tattagaagt 180
 cataaaagac caaaataaaa tagaaaaaca aacaacatga aaaaaccaac caaggaaaga 240
 aca 243

<210> 34444

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-A7

 <400> 34444

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 ttttttagct cactggccat tcgctgggag tttcgggctt aataccgata ttttagcaac 180
 aaatctaata aatctaactg tagtggttgg tgtattgatt gtttttggaa agggagtgtg 240
 tgcgagttgt ctatttcaag aatagattgg atctatccgg ctgcacttta gaatattttt 300
 agtatttcat ttgataaata agaaaagggtg cacgatctcg acgaattact tctgaataac 360
 ttcagaaatc atatggaaga accatagcat ttcgcgattc attggtaaatt tcactttgaa 420
 tctcta 426

<210> 34445
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-A8

 <400> 34445

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 gcgctgttgc tcgtcgccgc cgtgtgcgcg ctggcggcgc cggctgccgc ggtcgtcact 180
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 ggcacggtgg tgtcggggcg ccacgccatc ccgcggtggg agacgtccgg ctctgtggag 300
 tacatcgagt cggggcacia gcagggggac atgctgctgg tggtgccgca gggcgcgcac 360
 gcggtgcggc tgggcaacga ggcgtcgatc cggcagcgcc tggccgtggc gcgcggcgcc 420
 tactacgcca tca 433

<210> 34446
 <211> 342
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G11

<400> 34446

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tcgttcgtct gacttgggta taatctccaa agactaatct aaccatatag tagctggctc 180
cctacaaaaa ctccctgatg atacctgtag cccacacgag tcctattgcg taatgcccac 240
gattaaaaag ctacagaggcg caacgccatc gacctattct taaactttaa atcacatgga 300
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<210> 34447

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-A9

<400> 34447

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taaggctaca ttcaagtgag ctgagtgcga ggattattct tagtaggagc attgctgtca 180
gacagcttgg ttatTTTTTT ttgtgccgtg ttgggtcgct aagagattag tagttgcagt 240
cgtccgagga tggtaggtga attttgttgc cgctgatgag cttgtctact ggggtgttga 300
ccatgg 306

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<210> 34448

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B2

<400> 34448

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tcgttgaaga gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

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aaaaaaaaa aaaaaaaaaa taacaaaaaa tcaataaata taaatcaaaa aaaactaaat 180
aaacaaaata caaaataaaa 200

<210> 34449
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B5

<400> 34449

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agataaaaaa aaaaaaaaag aaaaaaacta caaac 95

<210> 34450
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B6

<400> 34450

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tcatggggcgt cttcgccgct ttggctaaag aaaatgccct ggttgagagc aaggccatcg 180
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tgcacgcctc ctactcgggc aacaacaagt tcaggtgcac cgacaccttc ctcggcattg 360
gcgggcccaa gtgctagatc agagaggaag aacgcgcgct gctgctagct gctatagctt 420
cgttct 426

<210> 34451
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C4

<400> 34451

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 catactgctg agttgttcag ccaggtcaat catctcagag aggagctgca aatgttggct 300
 aaatcaaata atgtttccat tgtcactgtt gatggtagac ctggccctgg tgcatacggg 360
 ataacagctg ttggtattgg aagagctatt ggctatttat tcataagatg gaaggggtgg 420
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<210> 34452
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-005-Q1-K1-C6
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 ccgccttggc tggcatgagc gccaacgccg tcaccttcac catcaccaac aact 174

<210> 34453
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-005-Q1-K1-D11
 <400> 34453

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 agcttgtaga ggatgtatga gtgaacaggg ccatgctttg aagcgaacaa gttataggca 360

tatgggagct ggggatcatc cgagacagat gccgcttcga gtgtcactgt acttg 415

<210> 34454
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D5

<400> 34454

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gaaggggaaga aactgtact ctgcataatg ttcaaattgg cagtggggtc tgttcgatag 180
aacgttcggg agagcagact cacatgaagc agatccagat ggaagagtgc ctgactggag 240
caaggcttct gtgcaggata tgaaagatag gttcgcttct tttgggttg 289

<210> 34455
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D6

<400> 34455

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tttcttcctt ccggatc 77

<210> 34456
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-005-Q1-K1-E1

<400> 34456

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ggacggccgg tacgagcgcc gctacttcgg cgcgcccgtc tgcaagtggc tcacccccaa 300
cgaggacggc gtgtccatgg gccgcctcgc gtcctatgaac caggacaagg ttctcatgga 360
gagctggtac ta 372

<210> 34457
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E11

<400> 34457

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tgatgcccta tacagcgcta agtcttcttg ctgcgagaca aaaagctata tcacgctcat 240
acaacatggt ggtacaagat ataacatacg atcattgctc gttcaaatac aacccttaga 300
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<210> 34458
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-005-Q1-K1-E2

<400> 34458

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gctccgtggt gacggcggcc aacgtggaga agttcccggg cgtgaacacg ctgggcgtct 360
ncatggcgcg catcgactac gcgccgggcg gccagaacct gtcgcacacg caccgcgcgcg 420

ccaccgagat catcttctgtc ctcgacggca cgctcg 456

<210> 34459
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-005-Q1-K1-E3

<400> 34459

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tccgccacct ggcgggggcc gcggaggcgg cggaggccga gctcaagagg acggcgctct 180
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acatctac 488

<210> 34460
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-005-Q1-K1-E5

<400> 34460

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attgtgattg ggatagtggg gatgctcttc tgggtgaaga acaagatatg gtgactggtg 180
ccatcttgcg atttcacagt tatcatgctg gaaccagctg agttgtcttg tcttcctcg 240
tgcaaccata tgtttgatcg tgggtccaaa aagaaaagaa aagatggctc gatggtttat 300
ccgcatctg ccgattcaag cgactactnt agctatcaaa agcaaaacca cggtagtaga 360

gatagccttg gaactgcaca tttctattaa ctggacatgt ataaatagtt ctctgagcg 420
cacaccatgt aatccgtcaa attcatccat gtgggtgtgac atttt 465

<210> 34461
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F10

<400> 34461

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tccttcagcg ccacctccat caaggcctac gtggccgagt tcacgccac cctcctcttc 180
gtcttcgcgg gcgtcgggttc cgccatcgcc tacgggcaac tgacgaatgg cggcgcgctg 240
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tccgtcgcgg cgaacatctc gggcggccac ctgaaccggg ccgtgacgtt cgggctggcc 360
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gccaccgtgg cgtgccttgc tctcgggttc gtc 453

<210> 34462
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F11

<400> 34462

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gcgttttctg gtactcatga taagtgtgca tcttgccata aaacagtgtg cccgctggag 180
aagttaactc tggaaggcga gtcctaccac aagagctgct tcaagtgtc gcacgggggc 240
tgcatcctca ccaccttctc ctacgccgcg ctcaacggcg ttctgtactg caagatccac 300
ttctcgcac tggtcatgga taatgggagc tacatccaca tgatgaataa gagcccgctc 360
caatatacac ttccggacat ggccgtcgac tagcaaccgc cggaaccggc gccac 415

<210> 34463
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F12

<400> 34463

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ttcaggagtt tgaataaggc aaggcattcc caaaccacgc attcattacc agcttcaaaa 120
ggcccttgga accaaattgc cttgccagga aatacctttc tacaaggttg tgttccggag 180
catcataata aggggaagac aaagcaagct gtctgcttat ttgtctatgt ttggtatctc 240
aagtcctgcg gactgtttct gttggcacia gaggggaatta atgtgttcac agacctgtaa 300
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atattttctt tt 372
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<210> 34464
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F4

<400> 34464

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cgtcgctcgc gcagactccg agagggcggc cgtggacctg acgaatttga cgacggaggg 180
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gcgcggccac cactgctctc cgttggaact ggagctgggc atgtccctgc ccggcccatc 360
cgtcggaacg tgatggagat gagtcgaggg cgatgccgtg cgtgactgct gtctccctca 420
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<210> 34465
 <211> 392
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-F9

<400> 34465

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ctttcaaggc tgcactacgg tgaccagatt gccaccgtca gcctatcatc ggggtcaagtt 180
tacaggttca gcatggattt gaagtgcctg aagacttggc ccctgtgata gcacacattt 240
gctgaaatga aagataccat tgattgtgca caaatcatg aaaacttctg gctggcaaga 300
aaataatcga tttcatacat caatcataac acgtatcata tttcttaaaa cacaagcatg 360
tgcagctcat tcacctttac gaccatatca ac 392
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<210> 34466

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C2

<400> 34466

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cagagcacca acaatggccg ccgcctcctc gtccctgggc ctctgtctgc tccctggccgc 120
cgccttggtt ggcattgagc ccaacgccgc caccttcacc atcaccaaca actgcggggtt 180
caccgtgtgg cccgcggcca ccccggtggg cgggggcacg cagctgatac ccggcgggac 240
gtggaccgtc aacgtgccgg ccggcaccaa gctcggccgc gtgtgggggc gtaccggctt 300
gctcttcaac ggcaacagcg ggagct 326
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<210> 34467

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-G10

<400> 34467

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aaaggcaagt aaaaataaaa acgtacagta gaacaactaa aaaataacaa actaaaaact 120
 taccacatct ttatcaatcc actaccaact atactcgtcc aactcgcaca tcttcatttc 180
 ctacttctac catacccacc atctaaacaa acatctacta tctcataaca catactctga 240
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 tctaacttcc tcaactaaacc cacacttcct ttcactacta tctctttctc atcattaacc 360
 tcctcattgc tcatcactca cctctctttt actctc 396

<210> 34468
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A3

<400> 34468

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 tcgagggtgcg gtgctattac agacggtgga ccctactttc agctgaaccg attccagggt 120
 tggcgttccg ttaagcat 138

<210> 34469
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A4

<400> 34469

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 gttgacagag aacgaaggtc cttgcttaaa aggttaaaggc agggccagtg atgcagcatg 180
 aatcgcggtt ctgacctgga gatcgttgct acatatgtca agagatggga agtacttctg 240
 catcaagctt gccttgtata tgcttattgc tgtgacaatt agaacgatat ttaccgatat 300
 tggccattca ctatca 316

<210> 34470
 <211> 316
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A5

<400> 34470

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ccttctatct tctaaattct attatatata agctctttct cttaaatttt tctactttta 180
ttccctttta ctttcttata ctttcttttt tattcctgtc tttcttaata cttttttattc 240
tttggttttt tcatatccct tttttttaaa aaactttttt tatcccaaaa tatttccctt 300
tatttaaatt tccttt 316

<210> 34471

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A6

<400> 34471

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aggggctcgc agacattgcc atccaagctt tctccacgac atcaactgac agcaccaaca 120
gagtggccag agcatgagca cgagcgcccc cagctacact cccacagctg cagcccgtcg 180
tcgcgctcgc accacgccac agcggacact gaccctgtca ccaaattgtt gtgacataca 240
cgagcgttac tgctatctcc aaaacgtcaa gtagttagaa tgtagattat ccattcttaa 300
tatgatattc tacaatctac atttctgtaa acaatgatta ttttaccttt tcttgttgat 360
tgtgagcata actgtagagc tcaaagagct tctctggatc tgatcatgtg gttatggttt 420
acatttgac accatgtggg 440

<210> 34472

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A7

<400> 34472

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 gtgtcaagag acgaaacggt cgacatggct cgcacgcaat ctgccgtagc ggtcgccgtg 120
 gtggccgcgg tgctgctgct ggcagcggcg gcgacgacct cggaggccgc catcacctgc 180
 gggcaggtga gctccgccat cgcgccctgc ctctcctacg cccgcggcac ggggtccggc 240
 ccctccgcgt cctgctgtag cggcgtcagg aacctcaaga gcgccgccag caccgccgcc 300
 gacaggcgcg ccgcctgcaa ctgcctcaag aacgcgcgcca ggggcgtcag cggcctcaac 360
 gccggcaacg ccgtcagcat cccctccaag tgcggcgta gcacccccta caccatcagc 420
 accttcaccg actgctccag ggtgaactaa aacctagacc acgcgcgacg ac 472

<210> 34473

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A8

<400> 34473

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 tgtgttccgt ctcttcgccg atggcttcgg ccaagttcgg tgctgcccag caggtggaga 180
 accgaggcgc gctgtccaaa aggtcacgta acgacgtgta tgtaaggag ggggactgga 240
 attgtcctca gtgtggtaat gtcaacttca gttttagaaa tgtttgcaac cgtggagcct 300
 gtggtgcacc ccgtccatca ccgagtcgaa gtccaagatt gatgccagga cctcctgctt 360
 ctggatatga ccggtcacct ctattttac 389

<210> 34474

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A9

<400> 34474

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aaggagatcc tcaagatcgt caaggagaac ttcgacttca ggcccgggat gatcaccatc 180
aaccttgacc tcaagaaggg cggcaacagg ttcacatcaaga ccgcccgcata cggtcacttt 240
ggccgtgacg acgcccgactt tacctgggaa gtggtcaagc ccctaaagaa ggcattcgct 300
taagaatgat ttgtaaggtc actggacatg atgttcattt tcgtcttgct ctgctgatac 360
ctgca 365

<210> 34475
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B10

<400> 34475

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cggaagtaaa tgcgcgaagc aagatgtcgt gtcacgcgta cgtcgacgag cacttgatgt 120
gcgagatcga aggacagcat ctcagcgccg tcgacatcgt cggtcactac agcagcgttt 180
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tggtgatcca aggtgaacct ggagttgtca tccgaggaaa gaatggcact gggggcatta 360
ctatcaagaa aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccaa 420
ggcaatgcat catggtggt 439

<210> 34476
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B2

<400> 34476

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tggaatttctc gctgagcggc cctacacctt tatcgtcgtc ggcttcgccg acgttgctgt 120
gttccgtctt ttcgaccatg gcttctgcca agatcagtgc tgcccagcaa gtggagaacc 180
gaagcgcgct ttccaaaagg tcacgtaacc acctttctgt aatggaaggg gactggaaat 240

tgccctcaatg tggtaatgtc aacttcaatt ttagaaatgt ttgaaaccgt ggaacctgtt 300
gtgcac 306

<210> 34477
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B3

<400> 34477

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ca 62

<210> 34478
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B4

<400> 34478

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tgctgtgttc cgtctcttcg ccgatggctt cgccaagat ctgtgctgcc cagcagggtg 180
agaaccgagg cgcgctgtcc aaaagggcac gtaacgacgt gtctgtaagg gagggggact 240
ggaattgtcc tcagtgtggt aatgtcaact tcagttttat gaaatgtttg caaccgtgga 300
agccttgtgt gcaccccgtc catcaccgag tccaagtcca ataatgatgc caggaccttc 360
tgcttctgga tatgaccggg cacctttatt tta 393

<210> 34479
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B5

<400> 34479

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accccgct cggtgggac gtcaacgccc agaaggcgg cgccggcatg atgtaccgc 240
cgcgcgca ggggatggg cgctaattac gctacgacca gctccatcg taaactgata 300
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c 421

<210> 34480
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B6

<400> 34480

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gctgagccac cgcgcgaca gcgggtgcca gggcgcttc tacacctacg acgccttcat 180
cgaggccgcc agcaagttcc ccggcttcgg caccaccggc gacgagcaga cgcgcacgcg 240
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tgcggtgga ccgtttgact ggggatactg acggctgaag gaacagaaac agacggacct 360
accctactat ggacgaggac ccatacagct aactgatgag gacaactaca ggctcgccgg 420
gcaagcgctg aacctgaacc tgggtggcga cccggacct 459

<210> 34481
<211> 133
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B7

<400> 34481

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ggcggggcac tttttagact gcgccgtgcg cccgagcccg gaacgctctc agatcgtgga 120

gctgctgact ttt

133

<210> 34482
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B8

<400> 34482

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cagggcacca acaatggccg tcgcctactc gtcctcggtc cttctgctgc tcctggccgt 120
cgacttggtt ggcatgagcg ccaacgccga caccttcacc atcaccaaca actgcggggtt 180
cacctgtgtg cccgcggcca ccccggtggg cgggggcacg cagctgaacc cgggcgggac 240
gtggaccgtc aacgtgcccc cggca 266

<210> 34483
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-B9

<400> 34483

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cacaaggagg ctgggtgccg ggccccctat ggacccatcc tctgcattaa taactgttgc 180
ttcttctgca gcgcggcgac catgaacatg tgctctaagt gccacaagga gatgattacg 240
aagcatgatc aggccaagct ggctgccttc tgtatcgaca gcacgtgaa cggcaaccac 300
gccgtcatgg agcccgttgg tgcttcagc aaca 334

<210> 34484
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C10

<400> 34484

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caactgacaa tgactactgt ccagatcggc atcacctggc cgcaccttag atccaacatg 180
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ctttgactag cacctggaaa gctccactta tactacagct ttcaggtgat cagacagcgt 300
ctgactaaag aacacctcca caggcgtttg ctttctca 338

<210> 34485
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-C12

<400> 34485
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tttttctacc cacataattc ataacataac ctaaaaaata ttattatttc acttaccccc 180
ataaactccc acacatccta cacctcataa cctacttcac aaactatcac tataatccct 240
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<210> 34486
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A12

<400> 34486
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gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180
ggctgctcac gaacataccc aaatgcaatt gtatgccgag caagtttctc agcttatgac 240
tactgagaag aacctgcggt tgcaactagc ttcggatgga gaaagatttc agcactttca 300

ggatgccctg tcaaaaagca atgaagtctt tgaaacttac aagcaggaga tggaaaaaat 360
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ctc 423

<210> 34487
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-B7

<400> 34487

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nagggggaag aggnngcacc gaagcggcga tgggtttcat catggacttc gcggagaatc 120
tgatcctccg tctgatggag gaccggaca agcgcgacca ggttcggcgg gagcatgtct 180
acaagatgaa ggagcgggtgc gagcgacta aggcggcgtg gaggctccct ctgcgccct 240
acggcttctg gaccttcgac cgcttcaact cgcagctctc ctgggatccc caaatcaacc 300
aggccgccgg ccgtcgggac ccctacgacg acc 333

<210> 34488
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-B9

<400> 34488

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gatctctcct ccattcacaca atccattcta tcttccatca cccatcctac aaacatccca 120
actcaaattt cacctcac 138

<210> 34489
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C11

<400> 34489

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 ctactgccga acgtctggtg acaagattgt ccggtgcttat gctaaggatc actatttcga 120
 tgttgtcaca aatgttgtgg gtttggctgc tgctgtcctt ggtgatagat tctactggtg 180
 gattgaccca attggtgcaa ttgttcttgc agtgtacacg atttcaactg gtctggaaca 240
 gtgtgggaaa atgcagtatc gc 262

<210> 34490
 <211> 301
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-C12

<400> 34490
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 tgctgtttta gccgtgctgg ccacctactt cttcncgtg cccactcacg ccgagcagtg 120
 ctggtctcaa tccagccgct cgctgtgccc caactgcctt ttcttcagcc aattctggtg 180
 gtgcatcagc acctctact actgcggcaa ctggtgccaa aaccagtgcg actgcagctt 240
 ctgcatcacc cctaaccctt ctaacaaccg cggcatttct ttcattattc cctaattctt 300
 c 301

<210> 34491
 <211> 120
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-C7

<400> 34491
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 ctcttaccta aattcaattc attttttcta ctttttataa cctaaaaact tcaaaaaccc 120

<210> 34492
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C8

<400> 34492

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aaaataaaaa agaaagaagg gcaaaatata taaaaaaaaa aaaaattaaa taaaaataca 120
tacaaaataa taaatatttt attatgttac ctaaattaaa ttttttaaac atcttttttac 180
aacataatta aataaaaaaa cttttgtgtt cccaattta atctctttta aaaaaatacc 240
cttttcgcta acttatttaa tatctaaaaa gcccacac 278

<210> 34493

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-C9

<400> 34493

gcggcaagaa ggaaggcact gcacaggag tccttggttg gcctgctgga cagtaggact 60
taattagatg gattgtgtgt aaaagatgag gaccgatgtg aactgaagta gtttctttgt 120
cacctcttcg ggtgctgcag caatccaagt ttttggttgt tattgatgac cca 173

<210> 34494

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-D5

<400> 34494

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cgagatcacc accaangcga gcgtggacta cgaggagatc gtgcgcgaca cctgccgcga 120
gatcgggttc acctccgacg acgtggggct cgacgccgac cgctgcaagg tgctggtgaa 180
ca 182

<210> 34495

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D7

<400> 34495

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ctgcgcctgc gccttcgccg tgagcttcta cgtgcgggcc aagaaccagg cggaccgcgc 120

gccggccgag ggcttgcgag tggaccgctg ggccggggcc aggtacgcgg ccgtgcgcgc 180

cttcgggggc ttctgtggcg acgccgacgt cggggagcag gcggcgcgcc tcgaggccag 240

cctccagggc acccggtggg ccgccgccgt caacgacgag cgcagggccg acccggcctt 300

gccctacacc gtgcgcgagt acaac 325

<210> 34496

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D8

<400> 34496

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cggggggact ctctatcgg ggacacaggg taccaggatt gcttctgagg gtctgaagca 120

cagagtcttt gaggtttgcc tagctgatct tcagggcgac gaggatcaag cttacaggaa 180

aatcaggctc cgtgctgaag atgtgcaggg caggaatgtg ctcacaaact tttggggcat 240

gaattttacc actgataaac tcagatccct agtgaagaag tggcagacat taatcgaagc 300

ccatgttgat gtcaagacaa ccgacaacta catgttgctg ttgttctgca tcggcttcac 360

caagaggcgc ccaaac 376

<210> 34497

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-D9

<400> 34497

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gcctccctcg ccaaatgagg tcccgccctt ttccgacatt cacagggggg acaggaaatc 120
agcggccatg gcctcgattc cggcgacgac ctccgcgctc atcttatccg tcctcttctg 180
tgccgcggct ggcaccgccg tcgacaacga cctccccgac tacgtcatcc agggccgcgt 240
ctactgcgac acctgccgcy cggggttcgt gaccaatgtc accgagtaca tcgcgggcgc 300
caaggtgagg ctggagtgcg agcacttcgg caccggcaag ctcgagcgct ccatcgacgg 360
ggtgaccgac gcgaacggca cgtacacgat cgagct 396

<210> 34498
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-E1

<400> 34498
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aacagtgatg agcaggagca gatcatgatt gcccgaaacc tcctcaacta tcgcttgaag 120
gagaagatgg cgatggccaa ttatcctcat gtttcaccat tccct 165

<210> 34499
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-E12

<400> 34499
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tttctgaggg gagacgtcct atanactaca gtaacaaaaa ccaccttcaa gccggcaagc 120
ttcaaccacac tttcacaaac tattgagcac caacattttt gatggcaata tatacacact 180
tgtatttaca acttcaacgc ttgaatctga agaatacaca ctcaaaacca ccattcaatt 240
taacaaataa ccaccgc 257

<210> 34500
<211> 192
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E2

<400> 34500

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 ttacactag gagcgaggct ctctagaggc ctgtaaactg tgatgtgaaa taccgctttg 120
 taatttcaga aataatctat tacctttgat gcgtccagcc actgaacgag acatatacat 180
 tgtatgttac tt 192

<210> 34501
 <211> 158
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E6

<400> 34501

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 cacttgetca ctgggggtctt gatttttnatt ttgaaaagtt ctgttcaatc tccttgtcaa 120
 atttgaatgt gtatgcgtgc ttggtctgtg gaaaatat 158

<210> 34502
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-004-Q1-K1-E7

<400> 34502

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 gtcgccgcgg cgactgcgac gatnatngac tgcgctggag gccgagacc cgtggaggac 120
 ttctcctcgc gcggcgccgg cgccggctac gacggagatc tcgtcgccgt cttctgcgac 180
 ggcggggccg gcgacggagg acttgggatt gaaggtatcc atggagatgc ttgtggattt 240
 gagcaatcta atttggggaa aaagggtaga gatgaaccat gttcatctgg cccaacatcc 300
 aaagcttgtc gtgaaaaaat gaagaagga 329

<210> 34503
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-B3

<400> 34503

cccacgcgtc cgaaggacca agggatcacc gtggttgctg gtgttgaagc tagaggggttc 60
atTTTTTggtg ctggtatggc tttatccatt ggcgcaaaat ttgtgccttt gaggaagccg 120
aagaagttgc caggcgaggt gatctc 146

<210> 34504
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-E9

<400> 34504

cccacgcgtc cgctcgtctc cttctcgtc tacagcgacg gcgaaggcga agcgggggag 60
cgggagcaga aacagaagag gcagccatgg ccgatgatgga gaagctcaag atcttcgttg 120
tgaaggagcc tgttgtcgca gcttctcgtc tcatcgccgg attcgggtctc tttcttccag 180
cagttgtccg gccaatcctg gattcatggg agaccgcaga aaaagtctct ccaccacctc 240
taaagtatgt ggttgccgggt gtcaccggca agaaaaagta gtgaacttgc attggtttct 300
catgtcgatg ctgtcccaca ttttcttccc catgtttt 338

<210> 34505
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-F3

<400> 34505

ggctctcagg agagtgatat caagtgtgct cctccctgct acacctactc tgtaatgata 60
catgatcaag ggcgactggt tttctattga taactctctc atgatcgtag tcttcttctc 120
tgggatgacg gcaatgatta tgc 143

<210> 34506
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-F9

 <400> 34506

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 aatttaaaaaa aaaaaaaaaa caaacattc caataaataa aacaatataa aatatctctt 120
 aaaaataaaa aaaatatact ttctctttcc cttctataa ttccctattt tcttttcccc 180
 tttttttccc cctctcctc tcctcttctt tccctcttcc tcta 224

<210> 34507
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-G9

 <400> 34507

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 ctctttctggt tgagctcatt ggaggacacc ttccggtatct ttttaacaaat tttccccccc 120
 aatcaaaactc cccaccttac aatttcttct ctccctgatct tcccatctag tcctttcctt 180
 ttatcctaaa tgattttctt taccctcatt tctacccttt ttttatttta aatctctttt 240
 ataatatattt tttccacttt cttccttctc tttcctatta attctacaat cttttatctc 300
 atattcaata ttctattttc tttcttcttt cttttctttt ttttttttct tctttt 356

<210> 34508
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-004-Q1-K1-H9

 <400> 34508

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 aactggtgtg ctcaagggtg gcgtgtgctg tgaggactgt gttggagctg tcaagcgggt 120

cctgggcaag atggaaggcg ttgagtccta cgacgtagac atcatggaac agaaggtcac 180
 cgtgaaaggc aatgtgacac ctgacgccgt cctgcaaact gtttccaaga ctggcaagaa 240
 gacttcgttc tgggaggctg aagccgtgac aagtgaatcc tccacacctt ccggtgccac 300
 cgcttgacaa gttccatgat cacgaagttc cccgc 335

<210> 34509

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-A1

<400> 34509

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 cgctgttgcc caccctccta tttctccatt cgttgtccg ctagttacag tggtcgcctc 120
 ttaggtgtta cagtaaaaaa aatattattg gtggtgatat ggttatttat tgattcgttg 180
 gggtaattaa taagaacct caagcttggg gtcttcacgg agaggttgaa tcgatgcggt 240
 gaaaacggca cgtgaagggt aataagagat cgatcgagcg gttaaagaga acaaggagac 300
 agagacaggt ggcagatgac gcagtggatg tttttcactg ttactgcggt aatttttgtg 360
 catgcggcta ctactgtaca gtggggtagt ttggtacaag agaggagtaa aaaaatggaa 420
 agagaggact 430

<210> 34510

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-005-Q1-K1-A11

<400> 34510

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 gaccttngcg ttatctttga acgggatgtg ctcgncccag cgcaaagcgt cccacctga 120
 ccaatgtctt ctgcncctcg gatcggnct cggcgaggcc cgggcccttg gagcccaaaa 180
 ggaaggggcg gtgctccga cttacgactc cacggaagta tgtcaaataa cacttcaaaa 240
 gtagttggta tttcactttg tcgcccggaa ggctctccac ttatctctac ancctctcaa 300

agtcatatcc acnacaagtc ggactatgag tcaagcctca acaaggggtgc ttctttcctc 360
cgctgattcc cgccaag 377

<210> 34511
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F5

<400> 34511

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actgtgactc ttgacgtatt tgttggtact tttatggcaa ccaatgagggc atctacttat 120
gacagactgg agtatTTTTTg ttagctcaaa aagactgggtt tctggtgaca catttatTTTt 180
cttgagtgtg acatcattac atgttaaagt tgtcttgtag gttacattta tttcctggct 240
ttactaaatt tttggatcaa ccttctaact gttcttcata taattgatgt gagaacaaat 300
agctg 305

<210> 34512
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F6

<400> 34512

aaaaaaaaa aaaaaaaaaa aattaaaaat taaaaaaaaa aaaaaaaaaa aaaaggaaaa 60
ggaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaggggc gccctTTTTt aaggttccaa ttttctacc ccttcctttc 180
aatctaatac cttttttttt attgccccca aatttaattc ctttgccctt ttttttaaaa 240
cttttaacct gaaaaacctt ttcctttccc caactaatc ccttttaata aaatccctt 300
ttccccattt ggcttattat cctaaaagc 329

<210> 34513
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F7

<400> 34513

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gctggaaact tatcaagggtg gcctgaagca tgacccgaaa aaccaggagt tacttgatgg 120
tgtaaggagg tgtgttgaac agatcaacaa ggcgagcata ggctaactca gtgaggagga 180
actgaaagag agacagaaca tagccatgca agaccctgag atccagaaca tactgactga 240
tccgatcatg catcaagttt tgactgatct gcatgagaac ccttgggctg tgcaggcgca 300
ccttaataac cccgtagtga tgcattat 328

<210> 34514

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-F8

<400> 34514

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atgctctgag cggggtcgaa gccagagtg aaacctttct ggtggatggc tttctgaagc 120
gatacctgat cgtgcaatat cnngttcgtc tgactttggg tatagtgggc gaaaggaact 180
aatcgaatcc atctagtatg ctggttcctt tccgaagttt tctcctcagg gatagtctgg 240
agtcctaca ctgagttcta ttcgggtata agcccaatga tttagaggca ttcgggggtgc 300
gcaaacgctc cttcgacctt atttcttcaa actttaaaat a 341

<210> 34515

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G11

<400> 34515

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agaagcggga gcaggtggcg gcatggaag agcaaggcgg ccaggcggcg ctccgat 117

<210> 34516
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G3

<400> 34516

cccacgcgtc cgcccacgcg tccgcccacg cgtccgtcca cgcgtccgcc cacgcgtccg 60
ggtctagatc gcga 74

<210> 34517
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G6

<400> 34517

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cgcttctaaa gagattgggg acaagaaagg tggactatc gaaggggatc atgtcaaagg 120
aatcagaagg agcagcaggc tggaatctaa cgacgagatg aagattgatg ataaggctac 180
aacgagagca atgggtaagg atgcgtttat taacaaaggt atatcttcta accctttttc 240
tgttctcaat actgataatt atgttcttat ggatgttgct ttaaagttgg aagtagaatt 300
aggttcctct tttaatgaag ctgtggaaaa ttagaaatg ataaaatc 348

<210> 34518
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G8

<400> 34518

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gtcgactaca aagggaccga ttttgagttc acccccttcg gtgctggtcg tcgacgtgc 120
cctgcaatca tgtttgccac ttctactcta gagattgcat tggcaaact tctctaccac 180
ttcgactggg ctcttccgga tggagtgagc ccaaagatgg tggaaatgtc tgagcaatac 240

gggatgggtg tcaccaaaaa gttagacctg catttgagag ccatcccata tgtatactct 300
 actatggcat aggtatgggg ggtgggtaaa gctacctgca ccttaacttg aggtcctttt 360
 gatg 364

<210> 34519
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-G9

<400> 34519

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 tgggtggttc agaagctggt gcaggcaagt tggaggctcc tgaaattggt tgtcaggtaa 120
 ctggttcctc tccagtagat gacaaagcta gagaatcttc aggatcacca gtgaaggata 180
 ctctgatgc tggagtcaga ttgcaaggat cagataactc agctatggca ttttctgcac 240
 tcccacttga agcacctgtg acaagcagca gagcagagcc tgtggcatgt gatggcagtg 300
 acatgaaaga tgatattcca ctagacgctg aaagcaacgg gaaccttgaa gagcgatgaa 360
 actgcttcct tttggaacat ggatgcatta catcaagtat tgggttaa 407

<210> 34520
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H1

<400> 34520

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 gggaaaaaga aaaaaaaaaa aaaaataaaa aaaaaataaa aaaaaaaaaa aaataaaaaa 120
 agacatccat tttaggggat ccattttta 149

<210> 34521
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H11

<400> 34521

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tgaggctcat ggatatgtcc ggaaggaggt ttctcctcct cgcaacgac ccagtcctaa 180

tagtcgcgct actcgctctg gtgggtgtcca acatcggtga cgtgggggac gtggcgcacg 240

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ccgtcccca catcctctgc gcagagatc 329

<210> 34522

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H12

<400> 34522

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atcgatcagc tgtgtctcag caggaggcgt tgcggccatg gcggcttcga agcccatctt 120

gtatagcgcg tggatcagct cctgtcctt ccgagtcgg atcgccctca acctcaaagg 180

tgtggattat gagtacaggg ctgtgacaag gaacgatcta gattacgaaa agatcaatcc 240

aatcaagtat gttccagcat tggttgatgg ggattttgtt gtttctgact ccctggcaat 300

catattgtat cttgaagata aata 324

<210> 34523

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-H3

<400> 34523

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gcaagcacac gcacggccga ggcatatggg agttgaccaa agatgacgcg accttcgacg 120

ccctagtcaa cgacgggttg gcttccgaca gccagctcat cgtcgacgtt gccatcaagc 180

agagcgcaga ggtcttccag gggataagct cgctcgtcga cgtcgggtgg ggcatcggtg 240

cggcggccca agccatctca aaggcgttcc cgcacgtcaa gtgtagcgtg ctggaccttg 300
cccacgtcgt tgcgaaggct ccaactcaca cggacgtgca atttatcgct ggcgacatng 360
ttgagagcat 370

<210> 34524
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-H5

<400> 34524

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caggcccgag tgactagccc ggctaataa ggaagtggcg cttgatgtgg aggtgctgct 120
ggtgtagtcg tactcatgtt gcaggtgatg tcctcatcaa taaccttggg aaagccaagc 180
cccaatccac ttttattttc ttaattcttt ttctttttcg cttacgctta cccttacaca 240
gatgacttct cagcagtcct cggaaggagg gaacgcacat tcccacacgg acggacttgc 300
gcaagagggg tttccctgca ttntgtggga ggtgctgcag ggagccgggt atctggtgca 360
gttggtcgag gagcaccggg taccocgctg taggggtgag 400

<210> 34525
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H7

<400> 34525

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aggaacctct tccgaagtca ctagcccaga tcgttgcatg gcttctgaga tggggacagt 120
ctccaaagct tcagtttcgt ccacctcacg ttcaacctg gcggtagaac gcactctggc 180
catttaatta tgaacttgtg gaactttaat actttcttcc tccgaagcaa gtttcaaact 240
ggagcttctt tcgattccga cagacaagct tctgcgactg ttaaaaattt tggcagcaaa 300
acagtgcaaa tagcaatgaa tactgtggta acttcacacc tacttgtctg tttatatagt 360

gctgtatgta agaaagctaa acgccaggat tttta

395

<210> 34526

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-F4

<400> 34526

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gtggcctaaa gcatgacccg aaaaaccagg agttacttga tgggtgtaagg aggtgtgttg 120

aacagatcaa caaggcgagc agaggcgaac tcagtgagga ggaactgaaa gagagacaga 180

acaaagccat gcaagaccct gagatccaga acatcctgac tgatccgac atgcagcagg 240

ttttgacgga tctgcaggag aaccctcggg ctgcgcaggc gcacctcaag aaccccggag 300

tgatgcagaa gatccagaag ctgcgcaggc caaggatagt tcagatgaag tagacggggg 360

cttggaaatgt tccgggttca gatcttgga cctgtgcctg gaaatg 406

<210> 34527

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-H8

<400> 34527

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cgcaccacgg caggatgacg acgctgagga acctcaagat caagacgtcg acgtgcaaga 120

ggatcgtgaa ggagctgcgc tcgtacgaga aggaggtgga gaaggaggcg gccaaagaccg 180

ccgacatgaa ggagaagggc gctgatccct acgacctcaa acagcaggag aatgttttgg 240

ctgagtcaag gatgatggtc ccagactgcc acaaacgact tgaaactgca ctggctgact 300

tgaaagcaac actggctgaa ctgaaggagt caaatgagc 339

<210> 34528

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-A1

<400> 34528

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gcggtgccac tcaggatacg atccctttta ttgtaaaaga gggatccctt ctttccattg 120
cattcttgca atccgtttct tcttgactat gtttcttctt gactatgtaa cgataataac 180
atgagaaaat tatctgaatg acattatatt ttttct 216

<210> 34529

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-004-Q1-K1-A9

<400> 34529

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ctggcatcta tcgtagccgc cgcgctccgg cgggcgtggc cagcattcag catggacgat 120
gtcgtcggca gccttggcgc cgcgcggccg gtccacgtgc tcatggcggg catcctggct 180
gccggcgtgg cgaagctgag gcgcctgcgc cgcccgccgg acgtgtacct ggtggagtac 240
ggctgcttcc gaccgcggcc gtgcttccgg gcgcggttcg ccacgtgcct ggagcacgtg 300
cacc 304

<210> 34530

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-B10

<400> 34530

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cctgcagatc ccaaattcgg tggattatta aaaggagggc gaccgaantc ttctatngnt 120
ttcatcatgg acttcgcgga gaatctgatc ctccgtctga tggaagacct ggacaagcgc 180
gaccatgttc tgcgggagca tgtctacaag atgaaggagc ggtgcgagcg cactaaggcg 240

gcgtggagcc ttctctgcg cccctacggc t 271

<210> 34531
<211> 196
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-B2

<400> 34531

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accgaagaag cgggagagat ggctcgtacc aagcagactg ctgcgaagtc cacgggaggg 120
aaggctccca ggaagcagct tgccaccaag gctgcccgtg agtctgcccc caccactggg 180
ggagtgaaga agcctc 196

<210> 34532
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C1

<400> 34532

taaaataaaa aaaaataaaa aataaaaaaa aaatatttaa aattaaaata aaaaaaata 60
aaaa 64

<210> 34533
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C10

<400> 34533

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acttgagcaa atgtccgca caaagggttac ctttccttta gttgggacca atacctgctg 120
cagtcaccct ctgtaccgtg agtctgagct tatccaggag aactaccttg gtgtgagaaa 180
tgcagcacag aggaagctac tggatgagct gggcatccca gcagaagatg cccagttga 240
ccaattcacc cctctgggcc gaatgcttta caaggcacca tctgatggga aatgtgggga 300

gcatgagctc gactacctgc tgttcacgt

330

<210> 34534
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C11

<400> 34534

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tttgtcttct ggaggagccc tgcgagtctt acctttgggt ttgcacctgg ccttgccata 120
ttggccctgg ctgtacttag cctcaatgtc tggaggagcg ggaagtccag cttaccgttc 180
atactggcgc aagcaggcat tgccgctgcg gtagcatgga agcacggcca ggcgtacacc 240
actacgagga agctgcttcc gtggggcttc tacgtcgcgc taagtgccgc aatgatctgc 300
ttctactcct acgttctt 318

<210> 34535
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-C3

<400> 34535

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ggatctggcn tctgacacc agtctnntcg tcttcttcta cgacgaccgt nncaagagcc 120
ggcgcggaag ggggtggtgtc atcaggtntt ctgcgcaccc gtcttgggac aactgctgcg 180
actnctcggc ttaccacagt tatcgacgcc ntngagtccg tacaagggac tcnttgccat 240
ggcttgctng ctgcaaggaa tctcngnntc gctgggtggc cccnaacggc aagggac 297

<210> 34536
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-C6

<400> 34536
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 accctttcct caaggaacct taattttaga ttcttgaaga atatgagtca cctgtatatt 120
 ttggtccaat cttttaacaa ctatgggcct atgcttgctc taatcaactt atttataggc 180
 ttatattttc ttatgtttca taatatttcc ttgtattcat atttttttga ccttttatat 240
 ttatttttcc aattttttat tttatttttt gtttctattt ttattttctt tttttacctt 300
 tatactcttt tttttttttt attttttttt ttttatatta tttcttttta tatttttatt 360
 ttatttttcc tttttatttt tttttatttt tttttatttt tacattttta tttttattct 420
 attttatttt tttcttttta attatttttt atttttttat ttattttatt ttattttttt 479

<210> 34537
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-003-Q1-K1-C8

<400> 34537
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 ggatataaaa tatccaaaac taacattcac ttacatacaa caacataatc ttttctataa 120
 actcacctaa attcaattaa cttttccaac tactaaacaa catctatact gtc 173

<210> 34538
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-003-Q1-K1-D11

<400> 34538
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 tcgtggtggt gttcgacttc gacaagacga tcatcgacgt cgacagcgac aactgggtcg 120
 tggacagcct cggcttcacc gagccgttcg agcgcctact gcccaccatg ccttgaaca 180
 cgctcatgga caccatgatg ggggagctgc acgcgcacgg caggacgctg gacgacgtcg 240
 ccgaggcgct ccgtgcggcg cccgtcgtcg cgggcgtccc cggcgtcatc aaggccgtct 300

acgcgctcgg ctgcgacctg cgcg

324

<210> 34539
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-D3

<400> 34539

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gtgctcgccg gggctgccgg cgccggcgcg cagcagggcg tgtggagcat catcaccg 120
cccatgttcc agagcatgct gagccaccgc ggcgacagcg ggtgccaggg cgccttctac 180
acctacgacg ccttcatcga ggccgccagc aagttccccg gcttcggcac caccggcgac 240
gagcagacgc gcaggcggga gctcgccgnc ttcttcggcc agacgtccca cgaaaccacc 300
ggtggatggg cgactgctcc ggatggaccg tttgcctggg gatactgccg ggtgaaggga 360
cagatacaga cggacccact ctactatgga cgaggaccca 400

<210> 34540
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-D4

<400> 34540

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ttcgtgttga gagctacatc aagcccgtcc ctgctattct ggagatccca tccaaagacc 120
atccatatga tccaacgcac gactcgggtgc tctctcgagc gaaatatctg ttctctgcag 180
aatcggttgc gtctgatatg ctatgaatgc atccttgctg agcagtaccc ttcgatgcat 240
ctattttgtt atggtattga aaagaatatg gcacgtacca ttgggtgcga tcgagccagc 300
atgaacaata ttgagcttgc taacaataat tggctgaact aaaccaacac cctctttttc 360
ataaatgggt ctaaatgata t 381

<210> 34541

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D6

 <400> 34541

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 gagctacaac aagcccgctc ctgctattct ggagatccca tccaaggacc atccatatga 120
 tccagcgcac gactcgggtgc tctctcgagt gaaatatctg ttctctgcag aatcgggtggc 180
 gtctgatagg cgatgaaggc atccttgctg agcagtaccc ttcgatgcat ctaatttgtt 240
 atggtattga aaagaagatg gcacgtacca ttgggtgcca gcgagccagc atgaacaata 300
 atgagcttgc aaacaataat tgggtgaacc taaccaacac cttttttttc ataaatggtt 360
 ccaaatagata ttttggtgcc ttgggggt 387

<210> 34542
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D8

 <400> 34542

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 gggcaggctg gccaaagccc gctcaacga caagctccgc cactcgggca tcacgcacat 120
 cgagttcacc aggggtgccg gcgagttccc tggcctcaag atcgggttcc acgtggagga 180
 gtactcgagc cccgtctact tcgcggtgct ggtggagtac gaggactgcg acggcgacgt 240
 ggtgcatgtg gacctgatgg agtccaagac ggcgcgcggg ccgacgacgg agcgctgggc 300
 gccgatgcgc gagtctgag gctccgaatg gcgcatgg 338

<210> 34543
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-D9

 <400> 34543

tcgcccacgc gttegccac gcgtccgcc acgcgtccgc ccacgcgtcc gccacgcgt 60
tcgcccaggc gtccgcggac gcgtggg 87

<210> 34544
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E1

<400> 34544

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gcctccggct gctgctggtg ccagggccgg gggcgggcg ggaggtggcg ctcatggggc 120
tcgccgggga cgggtcggcg gacaccgtca acctcagtaa tagtgaaaat ggtcggttca 180
gatatggagt tgcaagttct cccgggaaaa gagcatcgat ggaggacttc tatgaggcaa 240
ggatagacga cgttgacgga gagaaagttg gaatgtttgg tgtgtatgat ggtcatggag 300
gagtcatagc agctgagtac gttaagcagc atcttttcag caatttaatc aaaca 355

<210> 34545
<211> 192
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-E4

<400> 34545

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cgtgctcgty cgactgcatt tcattcaaatt nnttctgccc tagtnannac ttgtcgatgg 120
nttaggatag nngggcctac tcatgnnnngt ggtgacccgg gttgacgtnn gagaattatg 180
ggtnnntcga tt 192

<210> 34546
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-E6

<400> 34546

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gatcgccatg tcggactcgg aggagcacca cttogaatcg aaggccgacg ctggggcgctc 120
caagacctac ccgcagcagg ctggcacctg ccgtaagaac ggcttcatcg tcatcaagaa 180
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
atgccacttt gtcgccatag acatattcaa tgggaaaaag cttgaagata ttgttccttc 300
atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
tgaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggaat gatcttaaga 420
cttcccaac 429

<210> 34547
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-E7
<400> 34547

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atccattatt ggtatgttta tgtcatatag taaacggatc aaagggatat actgtggcat 120
tagagaatat tcattcttgac aagaaattat ctatatgtaa agatatctct gacaacggct 180
atagctcatt tcggtagagc aactaattta cacgtgcgcc aatgcttttt aacggaactt 240
tttatgcaat gaacataatt gacctgaag cataatcaat gtcttacttc atggattcga 300
aagagtcgaa caacagttac ctgacaatga caaacagctg ttttagatct attcaagtgc 360
caaatatgga gcttactcat atataacttc cattgatttc gccttctttg at 412

<210> 34548
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-B8
<400> 34548

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tttcaagatc tcagaggtaa agactatttt ccgacaagag cgttggaaaa tattctcaag 120

acgaaagggga taattgatga caagaagaaa gatgacgacg atgacgatga ataaagcgag 180
gctaagacta ggagggttag gtcttcaact gctcaagact ctgactcaga ctgaacctga 240
gatgaggatc gatgactcac cgtttctgca ctttggattt tgtcagtatg attgttctgt 300
gttgcgctgt actgtactgt aattgattt 329

<210> 34549
<211> 341
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-003-Q1-K1-E9
<400> 34549

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tgggtgtccgc gctgctcctt ctacgctca ccgaggagct ctattacatc ttcgtgcaca 180
agcgcgggct gcggcgacgc gcagccgcca tctccgacgc gtcgtcgtcc ccgtcctcgt 240
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acgccgtccc ggaggccgcg acgacgccga cgccgacgac g 341

<210> 34550
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-F1
<400> 34550

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cgggtgcccac ggtgttaaca ggagagctcg tgactgcttg gacttctctg tcccagcatc 180
tctacgtgta cgcggtgctg gtgttggagg cgatggccac gttcgtcggc caggtctccg 240
tgctctccct catcgcgctt ttcggtgcag caaccacagc catggtgacg actgctagga 300
aggcggagac gctgctgctt gtgtacctga tatttaccaa gccctt 347

<210> 34551
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-F11

 <400> 34551

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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
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 ggcttcgggt tccggcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 300
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggccagtc ccgcggcggg 360
 cgt 363

<210> 34552
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-G8

 <400> 34552

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 gcatccttca ctccggctgc cgaatcgacc cgcctcgatc cagatcagga gctgagggat 120
 ggacgcgaac aggcgccaga gtgggatcca gcagttgctg gctgcggagc aggaggctca 180
 gcaaattgtg aatgccgcta gagctgcaa gtcagcgagg ctcaagcaag caaaagagga 240
 ggctgagcgg gaaatagccg aataccgtgc ccagatggag gctgagtttc agag 294

<210> 34553
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-002-Q1-K1-H10

 <400> 34553

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 tactccccgc ccaagttcta caacgccgga gcgagggagt ggctttgctt tcgcctggac 180
 ttgctgccct ctcttgcggt cgcctttctt ctgatctttc tgatcaacct accgaccggt 240
 ctcatcgatc caggttgtct ggagcatgtg cactttggag aacaagatca tatcagtaga 300
 gagaatccta cagtacatgg gcgttcctgc agagcccccg cttgtcatgc cagaaaacaa 360
 gttggctcag agctggccat cgaatggaga aatccagctt cagaatctcc atgtgaaata 420
 tgcgccgcag ctgcccttcg ttct 444

<210> 34554
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-H5
 <400> 34554

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 ctttgacggc gagaacgtgg agagtgtcc tcctcctatg aagaaggact acaaactggc 360
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 t 421

<210> 34555
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-H7
 <400> 34555

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ccaatcccc ttgtcctgca ggctgtcatt gaccaccttg ttctttggcg tttaatacca 180
gaaagcagga aaccaaatag tgtcgtcatc aacttcttcg atgaggatga acattcgcag 240
ccctacttca agcctcccca tcttgacaac cccatttgca ctcttctgct gtctgaaacc 300
acgatggcat ttggcaggtc acttgtcact gacagcaacg gtaactacaa aggacctctc 360
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cga 423

<210> 34556
<211> 399
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-002-Q1-K1-H8
<400> 34556

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tcaaaggaaa caagaggagg atcagacagc ttggtgtacc gttatttcaa cctaccacag 120
aggatgctaa ttgtcacaca gaaccaatcc cccttgtcct gcaggctgtc attgaccacc 180
ttgttctttg gcgtttaata ccagaaagca ggaaacaaa tagtgtcgtc atcaacttct 240
tcgatgagga tgaacattcg cagccctact tcaagccttc ccatcttgac aacccattt 300
gcactcttct gctgtctgaa accacgatgg catttggcag gtcacttgtc actgacagca 360
acggtaacta caaaggacct ntcacacttt caactaaac 399

<210> 34557
<211> 206
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-A10
<400> 34557

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agagaatggt ggtcattttg cttgtgggag ctggggcgtc ttacatgacc gtggtaggga 120
cagtgatgat gatgacgtcc gttacaggga ctacgacgtg gcagctcttg ctaataactt 180

aagtcacgca tttcttttatg ggatat

206

<210> 34558

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A12

<400> 34558

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<210> 34559

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A2

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gaaagatgct cttggcgatg ttctcgccaa gctaggctag acgcaagggc taataatggc 120

catgtaattt cggacttggtg tttgttcata tggacccggc aaggcaatgt accattttct 180

gttgatattg tatcaggaag cacttaacta c 211

<210> 34560

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-A3

<400> 34560

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aattgataag tgtaaaaatt aaaataattt ataataaat ataaaatatt aata 114

<210> 34561
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A4

 <400> 34561

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 cagcagcggc aagcccaccc gttcgacgac atggcccgcc tcggcgccgg cgccgtgttg 120
 gcgctcctag tggcggtcgc ggcggtggcc gcgttcctcg cggtgccggc ctccggcgaag 180
 tccggggagc tgagcgcgat ggggttgctg gcggcgaagg gcggcagcgg cccgggccccg 240
 cagaagtgct cgggcgcggg gggcgagtgc gacttgagc aggcggatga gcttgggctg 300
 ag 302

<210> 34562
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A7

 <400> 34562

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 gaaagagaaa atgatggaac ttgagcttgc tgatctgaga cttcaacaac atcaagagaa 180
 ggctgctcac gaacataccc aatgcaatt gtatgccgag caagtttctc agcttatgac 240
 tactgagaag aacctgcggt tgcaactagc ttcggatgga gaaagatttc agcactttca 300
 ggatgccctg tcaaaaaaca atgaaattct ttgaaactta caagcaagag atggaaaaaa 360
 tgattttggt gataaaa 377

<210> 34563
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-003-Q1-K1-A8

 <400> 34563

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 taaaattaat aaatatTTTT tgtactTTTT ttaactatTT ttatTTTTTT ataacttctt 180
 ttatTTTTTT actTTTTTTT tTTTTTTaca tattTTTTatt tTTTTTatat cTTTTTTTTa 240
 cctatTTTTT tctttaaaaa actttctttc tttctTTTTT tattTTTTTTa tattTTTTTTT 300
 tctTTTTTcc tttatttGct tttttctTTa atatcctttt tttttttctt ttttttatTT 360
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 tgtctTTTTa ttattatatg tttttTTTTT tctt 454

<210> 34564
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-003-Q1-K1-B1
 <400> 34564

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 tctggatcaa tggaatgtgt gtgtactagg cagccggcaa agatgagctg ctgatggtaa 180
 tgatgatgat aagaggtcac tggtagccta ctacgtaccc tgggtcttTgt gagctggcat 240
 ccgtgcccga tagacgatcg aggagagaat gacgcacagc tctctgctac cggactgtct 300
 tctgccgtac 310

<210> 34565
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-003-Q1-K1-B10
 <400> 34565

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gttgatggca gcatggcaga actcatcaga cctagcctgt atggagcata tcagcatatc 180
gaattggtct cccccccac tcctggtgct gaagtagcga ccttcgatat tgttgggcca 240
gtttgtgagt ctgcagatct ccttggaaaa gatagggaac ttccaacacc tgatgaggga 300
gctggactgg ttgttcatga tgcangggcc tactgcatga gcatggtttc acctacaacc 360
tgaagtgagg ccgccaaaga ctg 383

<210> 34566
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B11

<400> 34566

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aaagcgaatg gataaaatta aaaggagggg gaaaaaaaaa gggcggccaa ataaaagggt 120
ccaag 125

<210> 34567
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B2

<400> 34567

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agaaaaaagt aaaatttaaa catttaaaat aattaatatt aaaataataa taaataaa 118

<210> 34568
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B3

<400> 34568

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cgacagggac tgagatctgg tgtcgacgca caggtgcaac acaagtatgc ttgctggatg 120

gaggattcat accagctgat gctgatgtag tgtttcactg gtgtcatgca tgcattgtatc 180
 gtgctattat aatcaaaaag aaaaaagaaa taacagtcac ggatgggttg ttgccaataa 240
 aaaaaaaact a 251

<210> 34569
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-G7
 <400> 34569

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 ctaaaaccaa tccactaccc cttattctac aacatcttaa cttcaaaacc cctgtctttc 180
 cccaacttaa tcaccttcca ccccatcccc ctttcaccct cttctcttat taccctaaac 240
 ccccttacc accccctta ccaacctttc ctcacctta atacccaatc tcccccccc 300
 ttttaaccccc cattaaacac ctccttttct 330

<210> 34570
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-003-Q1-K1-B4
 <400> 34570

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 cgggtggcccc gcagcgctg ttccgcgccc cgtgatgga ctggcacacc ctggcgccca 180
 aggtcgctt ccacgtcgtc gccagcgcg agcccgagg gggcgactgc ggcgttgga 240
 gcgtcaggca gttcaacttc accttagtca tgccgttcac ct 282

<210> 34571
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B5

<400> 34571

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gtacattcaa gacgacttca acctttgtgg cctcagcagc caagttcctt attatgatta 120
tgctcttgat ctcatcttag atattgaatc atctcatggt gatatgttca ctgaggaaca 180
aaatgagctc gtagaatcag ctgcagagat gctttatggg ctgatccatg cagcatacat 240
tctgaccagt aaagggctgg ctgcaatgct ggagaagtat aggaactatg acttcgggcg 300
gtgcccgcgt gtttactgct gtggtcaacc atgcctgccg gttggacaat cagatattca 360
tcgatctagt a 371

<210> 34572

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-B6

<400> 34572

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aaaaataaaa aaataaaaaa taaaaa 86

<210> 34573

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-003-Q1-K1-B7

<400> 34573

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tccagatccg cggcatcacg ctgctcaaca gcaagttctt ccacctcaac atcttcgagt 180
gcaagaacgt gctgatcgac aaagtgcgg tcaaggcccc cggcgacagc cccaacacgg 240
acggcatcca catcggcgac tccagcaacg tgaccatcag cagcaccacc atcggcgctcg 300
gcgacgactg catctncatc ggccccggga gcaagatgat ccgcatccat ggcgtcaagt 360

gcggggccagg ccacggcatc agcgt

385

<210> 34574

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D2

<400> 34574

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ggatgctgcg ccagcttcgg ttcctaccgg tgatggctgg gatcaaactg tggcccctgt 120

tcctgtggat ggcactgttc ctccagtggc cgctcctact ggttggtaat cagcagccca 180

gccactgcc caaggcttgg agtaggcgtt gaggcacac tctgagacgt cttgtgcggg 240

attatttcaa agtatgaatg cccgaagtca gacgacatat tttttagat tatttgctat 300

gctttgtgca ctgaatgttt ttagggcttt ttttattgat ccggtgcca tagatctgtt 360

ccttaaaatt gtctttatatt aat 383

<210> 34575

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D4

<400> 34575

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aagaaaaatt agaaaaaatt aaaaaacaaa caaaaaacac aaaaaaacia ataacaaaaa 120

taataaa 127

<210> 34576

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-002-Q1-K1-D7

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 gctgatgcag aagctgcgcg ccgtgctggg ggaccacgcc ctcagcagcg gcgacgcgga 180
 gcgggagccc tccgtgttct ccaagatcac caggttcgag gaggagctcc gcgcggtgct 240
 gccccaggag gtggaggccg cccgcgtggc ggtcgccgag ggcaccgncc ccgtggcgaa 300
 ccggatcgcg gacagccggt cgttcccgt gtaccgcttc gtgcgcgagg agctcggctg 360
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<210> 34577
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E1

<400> 34577

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 cccatcagcc ccaccgtcga ctgcaccaag atcaactgat cgatggaacc atagtggagg 180
 tagctcgctc gttggatggc agcgtacgtg gccatcagca gcatgcagtc gtcgtcgtag 240
 cagagatgtc ctagctacgc gtgtgtcatg catcagactg gcacataata aagaagtaga 300
 tcatgcaccc actagtgatc acttcgtcta gtgtccctac gttcaatgtc gtcgtcatca 360
 tcgtgtacct tacgtgacat gctgtaacac gtacgctagc agagcagcac ctcaatgtcc 420
 ttgggt 426

<210> 34578
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E10

<400> 34578

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gcatgtcgta ataaaatcaa tttctttttt tttttttaat aaaaaaatt ctgattttct 180
 ggggtctagtg aataaatgga tagagcctgg ctctaattct ggt 223

<210> 34579

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E12

<400> 34579

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 tcgtctctct catccgctgg atctctctcg tcgactctt cgagggtac ctgggcttct 180
 acccgagggga gagccgctgg aagggcctgt acgagcgggg ccccgccgag ggcagctcgc 240
 cctggggcgt cgccttgctc gtcctctctc tctctgtgct cgccagcttc cactccacca 300
 tccacgacat gtgggggccc tgaacggccg gatgtgggtc ctgctctgt tcgattccac 360
 gcgcgcacgt atgcgattgt actgctgggt gctgcttgat cgatcgatgg atcgatgatt 420
 ccatgtacat atttgtagg gggatgctgc tgct 454

<210> 34580

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E3

<400> 34580

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 atggctgccg caaggggcat taaccagctc ctgaagagaa ctttctacaa ccagtctgct 180
 ggttcgtcgc cgcttttctc atttcgggga aagcatgaag aatcctctgc tggactgaga 240
 gcattggctc ttcttgaggt tggtgccctt ggtcttttga gttttgctac aatagcatct 300
 gctgatgaag ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc 360
 atgagctcgt atgatcacgc atcaattcgg cgtgggcatc aagtttacac gc 412

<210> 34581
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E5

<400> 34581

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gctgaggcca ccatctccac acccaagggtt gcacctgaga ccactaccat ccacattgag 180
gttgcgggcaa aacatgcagt agttgagaag gtggaggagg acaaggagga ggcactaaca 240
gtggcgggcga aacaagagcc agcagccacc attgagcctc agcagattgc tagtgagggtg 300
accacttcgg aagtggcggt cgtcgttgtc gagcctgaga acaaagagga ggaggaagtt 360
gtggagaaga ccgtcatcga gaaggagaag ccatcagcag tccatgcaga ggaaaatt 418
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<210> 34582
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E8

<400> 34582

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aggccttgct cggcttgaaa gaagcaagag atgggacact agggagagga agacggctct 180
ccagaacctg gaacagttcc aggagaaggc aaagaaggaa aggctgcgga tttggcagta 240
tggcgatggt gaatcggatg aggacgagca ggccccagct gcaaggaagc ctggaggtcg 300
tcggtagagc tccccaaatg tgagactctg ctgggagtta tagattcaac ttagagggta 360
ccttatttat tcggttagaa aacagaactt agtgaggcga aactttctcg gtttgagcac 420
ttttgatatt ccgtttt 437
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<210> 34583
 <211> 438
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E9

<400> 34583

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atatacccaa aaaaaataaa aaaaaataa acaaacaaaa aaaaacaaaa aatacaaaaa 120

aaaaaacata aaaaaaaaaa aataaaaaaa aaaaatacaa aaaaaaaaaa aaaaaatata 180

aaaaaaaaaca aaacacaaaa caaaaaata aaaaaaata aataaaaaaa aaaaaataa 240

aaaaaaaaaaa aaaaaaaaat aaaaacaata aaccaataa acaataaaaa aaaaaaaaac 300

aaaaaataaa aaaaaaata aaaaaaaaaa taaataata acaaaaaaaaa ataaaaaaca 360

aaaaaaaaaaa atataaaaac aaataaaaaa caaacacaaa aataaaataa aaacacaaaa 420

aaaaaaaatac atacaaaa 438

<210> 34584

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F12

<400> 34584

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tgtgaggtgc tccattgaac tgcttgatca cccaaaagat tacacgacac ctccagaaga 120

acttgtactt ctaccagcaa gtgctaccct aggtgacctg aaagtacagg cttcaaaggc 180

tttccaagaa acgtacctga tgttccaaag cttccagact gaacagctcc ctgactttcc 240

aaacttcagt gatacaaccc ccgtgaagca tgtgcttggg tcaggccagt tgcttcgagt 300

aaggggacgt tgcaactggg attacaggag aattgtacag ttcaggatgg agaggggttt 360

ggagaactgg acggtggact gctcatgtgg ggccaaggat gatgatgggg aacggatgct 420

agcttgtgac atatgtggag tctggcagca ta 452

<210> 34585

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F4

<400> 34585

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tcctccttta tggacctcca tgcacatgaa aaacattgct tgcacgtgcc gatgctcatc 120
acactgactg caccttcacg aggatgtctg gttcttaatt ggttcacaaa tatattgggtg 180
aaag 184

<210> 34586

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F8

<400> 34586

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acaggaaaga cattgctggc acgtgcggtt gctcatcaca ctgactgcac cttcatcagg 180
gtgtctgggt ctgaattggt tcagaagtat attggtgaag gttcccggat ggttcgggaa 240
ctctttgtta tggccaggga acatgcgcca tccattatat ttatggatga aattgactct 300
atcggatctg ctagaatgga gtctggaact ggcaacggtg atagtgaagt gcagcgtacc 360
atg 363

<210> 34587

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G10

<400> 34587

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gatatttttt tgtttataaa ctcccctggc ggggtggctaa tctcaggaat ggcgattttt 240

gatacgatgc aaacggtgac acctgatata tataacaatat gcctcggaat agccgcgtcc 300
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aggattatgc ttcaccaacc tgctagtgtt tattatcggg caaggacacc agaattttta 420
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<210> 34588

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G12

<400> 34588

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aatagccagt actataatta ttaattataa ctccatata taaacatcaa aaaacataaa 180
acaataatcc tattatgtta tccgatgcta atgaatccag agctaaagaa taggttcagc 240
actctaaatt cttaaaagat 260

<210> 34589

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G3

<400> 34589

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attctaggcg taagttgctg tgctggttgg ggtttactgg tgaaccagag tttttctatc 180
ccactatgaa tttgttacct c 201

<210> 34590

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-D12

<400> 34590

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cggcaagaag taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgtcct 180

cggcgtggcc ccggagaaga aggccgcgcc cgagtctgtc gaggccgcgg cggagtccgg 240

cgaggccgcc cacggctgca gctgcgggtg ccaactgcaag tgcgaccctt gcaactgctg 300

atcacatcga tcgacgacca tggatatgat tattatctat ctagcttgtg gtggtgggtg 360

aacaataata agcgaagccg agctggctgc catacatagg tattgtgtgg tgtgtgtgag 420

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<210> 34591

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-G4

<400> 34591

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gtcgtcacta tcgtcgcttt taggttcata tgcccatagg tgcttttgca gccgtcgtg 120

atcgggatgg aagctcccgg catccacgag accacctaca actcgatcat gaaatgtgac 180

gttgatatca tgaaggacct gtacgggaac atcgctctca gtggagggac gaccatgttc 240

cctggcatcg ctgacaggat tagcaaggag attactgccc tctcaccgag catctttaag 300

atca 304

<210> 34592

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-002-Q1-K1-A12

<400> 34592

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accgcggata agcttcagct gctgtcaggg atatctgggg cttttcgacc tgggtgttctc 180
 actgctctta tgggtgtgag tgggtctgga aagactactc tcatggacgt tttatctgga 240
 aggaagactg gaggatatat tgaaggagaa atttatatat ctggttacct taagaaccaa 300
 gaaacatttg ccagaatata aggttactgt gaacaaaatg acatccactc tccacagatc 360
 actataaggg agtccctact ctnttctgct ntcattgcgc ttcctaagga ggtcactgac 420
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<210> 34593

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A3

<400> 34593

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 tgetttaagtt tctttgctgt tccaagttta gtgacaaaac tgacaatggg ttagcaactg 180
 ggttgctgctg cgaccagtat tttcgttttg cctacctgta ttgtctagtc tgtgtttgca 240
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<210> 34594

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A4

<400> 34594

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 cttcttctcg gaggtcggag aagagctctc tgcttcattc ggccgggtcca actccaccga 180
 ccgatccaat ccaaccact gaccatgggg ttcccgccgg tgtgctgctg cgcccccatc 240
 cccaagccgg tcgtgcctt ctgcaacctg ctcggcgcca tcaaggacgc cgtcctgctg 300
 acgctcgccg ccgtgggctt cccgcacgac gccgcgcgcg gctcggcgga cgcccaccag 360

cccaggagg tgaagacccg gctccccgcc gtggagtacg cccagctcct ggccgagca 419

<210> 34595

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 34595

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cgcttccgga agcttccgaa aatggccacc gacgagctcg cccacgccgt cgccccgcc 120

ccggccgggg gcgaccactc cccggccttc tegttagca tctggccgcc gacgcagcgc 180

acgcgggacg cgggtggtgcg gcgcctcgtg gagacgctcg cgggggacac catcctctgc 240

aagcgctacg gcgcggtgcc ggccgtcgac gccgagcccg cggcgcgcg ccatcgaggcc 300

gaggccttcg acgcgcgggc ctccacggga ggcgcgctg ccgccttcgt ggaggagggg 360

atcgaggcgc tgcagttcta ctccaaggag gtgagccgnc gncnctcga ctctgtcaag 420

tcccgc 426

<210> 34596

<211> 334

<212> DNA

<213> Zea mays

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<400> 34596

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tggactgaac gtgtgactag ataacaacaa gcgtgaacca tggcggacga gtacggccgc 120

agcggctacg gcaggtccgg cgccggcgac gactacgaca gcggctacaa cagcaagtcc 180

ggcactgatg actacggccg tggcgaagggt ggctacaaca agtcggggcg cgatgacgac 240

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accggcggcg gtggctacaa caagtccggc ggcg 334

<210> 34597

<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B4

<400> 34597

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gcggtcgtgg tcgtcgtcgt cgacgactcc ggcggcgccc ggcaacgtgt ggcgcaacgt 120
cttccacccg ggggtgctatc ttttcaccaa gggcatgggc gccaacctct tcgaccggcc 180
gcagctccat cttctttacc gtctacgact ggctctacag ctactagacc aggagcaacc 240
accgttagat cgttcgagat ggatggacag tgaataggcc atgtttgctg gtccttgtgg 300
ttatctaaaa cgcacgcatg ctctattata gctagtcatc actatttata tacttgtgtt 360
tgtgtattgt tgtttttgtt ct 382

<210> 34598
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B9

<400> 34598

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catagcagcc ctctggtaag gaacggtgcc ggccgtgttg tccgtagacg attgaggggg 180
acagaaagag attctttgga tgtttttcct tgtttccttt atttataccg agagataaac 240
aaataaaaaa acccagagac gaaaaaactt tttttcttga accgccctgc tccccctctg 300
gtgttgggaa tttgtgattt tgacatacga cctgtatggg tatttttccg gccggtgaat 360
gatgatacca ggatggacgc gctgaagtgt aacaacaact gcgccccgcc ggaggagac 419

<210> 34599
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C1

<400> 34599
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tgtcttgacg ctgctgatca agctgctgct ggggctcaag ctgcaagtgc ggcaagaagt 120
acctgacct ggaggagacg agcaccgccg cgcattgccac cgacattct 169

<210> 34600
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C11

<400> 34600
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ttgccggtgc cgcagacggc catgggtctg cgaaggtgcc cttgtggaaa gatccgttga 180
gccccagcaa gtggaaggaa gagcactttg ttctagcaag cctctcaatg tgggggggta 240
ttttttatgg tggttacaag ctttttagtg gaaagaagga agccaagact gaggcgggat 300
caccacaggc ataggtggcg gagatggagt tgtaccata tctgtggcct ggcaacaatg 360
ttaaataaaa ggaatgcttt atgttgtgct ttcaagttga taaattgtgg caacaagaga 420
ttttgcttta cctaggcaat atattgagaa gct 453

<210> 34601
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C12

<400> 34601
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cttctttggc aatgtaacca cagatcaggt ctataagatt gttaaaaccc ttaatgaatg 120
acatgttccc ccttcagatg ttgtggatgt cgttgtcagc ccttcttatg tatttcttcc 180
tgtggtcaat atccagctgc gccaaagatt ccatgttgcg tctcagaact gctgagttaa 240
taagggatgt gctttcaccg ttgaagtcag tgctgacatg ctcgtcaacc ttggtgttcc 300

ctgtgtcatt cttggacact cttaaaggaa agctctgctg tgagaatcaa atgaatttgt 360
 tggatacaaaa gttgCGtatt c 381

<210> 34602
 <211> 144
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-C7
 <400> 34602

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 ataaattatg tggatcacat tattatactg acatcacgtt ggcattgattt tggaacttca 120
 ataattattat gatgtgctag attc 144

<210> 34603
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-A1
 <400> 34603

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 agatccagca agacctggac agaagtggca cgtggctctac gccactgagt acccagagca 120
 accaatgggt aaccttgaaa tgtgcatgac tggctctggac aagaagatag cttctgtctt 180
 tttcaagact aatgctgatg ggaacacaac atgtgccaag gaaatgacaa agctctctgg 240
 catctctgaa atcatccccg agatggagat ctgcgatttt gactttgaac cctgtggcta 300
 ctccatgaat gcgatccatg gctctgcatt ctccacaatc catgtgacgc ccgaggacgg 360
 tttcagctat gccagttatg aggttatggg cttg 394

<210> 34604
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-002-Q1-K1-C8
 <400> 34604

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cggaaggcct tcgagcccat cctgctggcg gggcgctcca ggttcaagga catcgacatg 120
aggatccgcg tccgaggcgg cgggaagacg tcgcagatct acgccatccg ccaggccgctc 180
gccaaggggc tcgtcgcta ctaccagaag tacgtcgacg aggccgcaa gaaggaggtc 240
aaggacatct tcacccggta cgaccgcacc cttctcgctg ccgagccag gcgctgcgag 300
ccgaagaagt tcggtggctg tggcgccgc gccaggttcc agaagtccta ccgttgagcg 360
ctcggtgcc cgctcttgcc ggacagttgc ctgtgttgtc ccaacttgcc agatcgatgc 420
ctgtaccgt 430

<210> 34605
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-002-Q1-K1-C9
<400> 34605

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ggttcattgc tacgtactct gatcgaggta acattcattt actatacacc ttttatcatt 180
tttggtatct tattttctac accattcttt actttttaca tgctctattc gttctatctt 240
aaaatactat ttatctttta tattttttcta ttattactcc cttttttttc ttatttttat 300
atttcattac tttttatttt ttctctcact attttttctt tattttattt ttttaattta 360
ttttttttt tttttttta tttatt 386

<210> 34606
<211> 362
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-002-Q1-K1-D10
<400> 34606

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taggattccc ctggttaactt ggagcgaacc gggagcagcc cagcttgaga atcgggcggc 120

ctagccgtcc gaattgtagt ctggagaggg gtcctcagcg acagaccgac cccaagttct 180
ctggaaaggg actcctgtga ggggtgagagc cccatgctgc ccggaccctg tcgcaccacg 240
aggcgccatc aacgagtctc tttgtatggg aatgcatgcc aaatcgctcg gtatactacg 300
tccaatgcta aatacaagcg agataccgat agctaacaag taccgttaaa aatataaatt 360
at 362

<210> 34607

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G10

<400> 34607

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gaaagaagcc gagacagaca gtgactcaga ttgagtccag aggcattcac tattgcacag 120
aggagagccg aacccgagtt agggggcggtg gcagtgcatt ggacctctgc ggagacctgg 180
ccccaccca ccgtcctgct tttccccggc ttccttggtg ttcacacgct ggctccagtg 240
tctgcaggtg tcgggcacaa accgtgtaca gcattttgag gcgtggctct tgtacctcct 300
tttcagtcta ataaaatgac ttggagaaaa a 331

<210> 34608

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G11

<400> 34608

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tcaagattct ccaagccagg cttctacagt atatgaactg tgaactttct catgctggat 120
ttaaaaaagg cacaggaacc agacatcaaa ttgcctacat ccgctggatc atcacagatg 180
caggagagtt gcagacaaac atctatTTTT gctttattgg ctatcccaga ttcttttact 240
gtgtggatca caaaataatg tagaaaagtc ttaaagagat ggaataacca gaccacctta 300
tctgcttcct gggaaatctg catgcaagtc aagaagcatc agttagaatt ggacatggag 360

aaacagactg gttccaaatc aggtaaggag tatgtcaaag ctgcatattg tcac 414

<210> 34609

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G12

<400> 34609

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tccgtgcacg tgggtggccgt gatgctgtac ctgctggacc gcttcagccc ctteggccgg 180

ttcaaagtga acagcgagga cgaggaggag gatgcgctga ctctgtcttc ggctatgtgg 240

atctcctggg gcgt 254

<210> 34610

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G3

<400> 34610

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ttacatattg taggttagca ttacagcatt atgcagtttc acacaattca tgttagcttg 120

tatgttgaat ttgttaatgc accacacaag tgcggaataa agactgattc acatt 175

<210> 34611

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G4

<400> 34611

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gccgtggtgg ccttcattga cgtcttccat caatattccg ggaggggaagg tgacaagcac 120

aagctgaaga agtcagaact caaggagctc atcaacaatg aactttctca ttttttagag 180

gaaatcaaag agcaggaggt tgtggacaaa gtcattggaga cactggacag tgatggggac 240
ggcgaatgtg acttccagga atttatggct ttcgttgcca tgattaccac tgctgccac 300
gagttcttcg aacacgaata aggaaaagaa agcagcggag ctgtttctgc agcagagacg 360
gagtttgacc aggggaacac aggcagggct tgcagggctg taggagctga gctttccgtg 420
t 421

<210> 34612
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G5

<400> 34612

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ccactcagga ccgcgccgtc ggctctgcc tgcagcagac cccttccgac ggccctcgct 120
gcgcaggctg ggacgcctct cccccctccg cccccgccgc ggaaagttaa gtttgaagag 180
gggggaagag agagaaacat ggacatgaag aggaggatcc acctggagct gaggaaccgg 240
accccgccag ctgttcgaga acttggtctg gacaactgca aatcaaatga tgggaaaatt 300
gagggcttaa cagctga 317

<210> 34613
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G6

<400> 34613

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taactttatg caagggtgcag tccataatat ctagtatagg ctctcaaac tgctgaaaat 120
tttatcctga atcacgactg taatgtctac cacttggac cagtgcctcg tctgtaatcc 180
catacattaa gaaagttgct catcatattc caaactattt t 221

<210> 34614
<211> 348
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G7

<400> 34614

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atattttaaa cctgaagcac gactgtacat gtattcatac gtggaaccag tgcgctcacc 180

tgtaagcctc atacactagg aacgttgac atcttattcg caacgaatat cgttcagcct 240

ggatatctata gagcctaact ctgtagaaga gatcgttagc taaacattat gtctgttgta 300

actcagataa ggatctccac ttctgatatt gagtactgat attttttc 348

<210> 34615

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G8

<400> 34615

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cagggccatc gcatgtatct tgttacactc tcaaaactgt cattatttta acctgagcac 120

gactgtaatg tctaccatct ggaaccagtg actcacctgt aagctcatac cctaggaacg 180

ttgcacatct tattccaaac aatatcgggc tgtctggtga tcttttagagc ettactctgt 240

taaagtgatt gtcagccaaa cattatgacg gatgtgactc aaattagtgt ttcccacttc 300

tgtatttagt accggtatct ttttttgaag tggcatatgt gactatttta a 351

<210> 34616

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G9

<400> 34616

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caagtgcctc cgagattaaa accgcttcat cgggaggtag tgtgtgttct tttccagaac 180
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 gcaagctcca gcaactcaac agttttctcat ctgctgggaa catgggttcc catgtagcaa 300
 gtcgtacgtc gtgccctgtt ctcccttagct agttaaaactc acgagctgtg ttttacaact 360
 aatccttaat aactatggta attaaactgtg actgtgggtt ttttaaaatc tgtcat 416

<210> 34617

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H11

<400> 34617

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 caagagactg ttctatatat cagtgtctct tttgctgtct cgtatacagg gttattgtta 120
 ccatctttct aaattccata tataatgcgt tagcatactg tattgttttt ctttctggct 180
 tacttcactc tataggctcc agtttcatcc acctcattag aactgattca gatgtattct 240
 ttttaatggc tgagtaatac tccattgtgt atatgtacca ctgctttctt atccattcat 300
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 a 361

<210> 34618

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H12

<400> 34618

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 tacatacata cttttaccta ccgaattggg tattataact agttactgga ctatattgaa 120
 ctcatattaa tctatatcat gctaaattta tgtaagctat gtgtaccaa catgtattgg 180
 aatcttagta agctataata tccccagcac agctataccc tcacatgaaa aaagacataa 240
 aaggg 245

<210> 34619
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H2

<400> 34619

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tccctggctg attatccctg tggtactaat aaatgtcttg caacaat 107

<210> 34620
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H3

<400> 34620

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ggttgtaagt gtattagttg tttgttgtca ctatcagggtg gctgggagct gaggctccct 180
tgctgtccag catgacgaga gaacattgta ccacatttca ctagcccaag aaaaaataaa 240
aattctagct agatatgggt tccactgaag gtgtctcgct ttcacaccat tataatgtca 300
aaaactcagg ttgaaccatt gttaagtcgg agactgtcta aatttattat gtagatgttt 360
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ataat 425

<210> 34621
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H4

<400> 34621

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gcgttgctag ccaaacggc tataatccct gcaactcattg agttgctaaa tgctcaacaa 120

gaagatgatg aatTTgTTTg tCagataatt tatgtcttct accaaatggT tttccatcaa 180
gccacaagag atgtcataat caaggaaaca caggctccag catatctcat agatcttatg 240
catgataaaa ataatgaaat ccgaaaagtc tgtgataata cattagatat tatagcggaa 300
tatgatgaag aatggggccaa gaatattcag agtgagaagt ttcgctggca t 351

<210> 34622

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G1

<400> 34622

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actcactttc actaagcatt gaatggcctt accactcttc tgcaagatgg aggaagactg 180
caaaacttag tgcccatcac actgaaggaa ggggtgtggc tcttttctctg cttctgtact 240
gctacctaac tttgtggtta gctttggatt ttaatatctg tatctgcttt agattcaagc 300
ccataagttt tgaagtgact tcagcttcat tgtgaaatag ctctcttcat atttcatagc 360
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<210> 34623

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H8

<400> 34623

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aaaggatttt agcaggaacg tcttgcattat taatgggtggc aaccaactgg actgtcaatg 180
cttctgcct cactctgcgg tccattctga tatatcttat gcatgatata taatatgtgg 240
cttctaagag ctgtgataat acattagata tcacaacgga atgttaatta gaatggggcca 300
ggataattca cagtgatagc gatcgtgaa ataactttca atgac 345

<210> 34624
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H9

<400> 34624

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tcctctgtta ctgaatcttc tttggtctcc ctgttctggc tggcatctgc tctgctgctc 180
cactcttctc cgtgtgacat cctgacttat accgacatta tcatcgtaca atcttctctt 240
ttctcgtcat cttatgtggg gcaggtctc 269

<210> 34625
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E12

<400> 34625

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atgcatacta atgttcacag aaccattact cacaatgctt aaaatatgaa agcacctac 120
gtgcctatca acagatgacg atgataaaat ggtgtgtgtg cgtgtccgac tctgcaaccg 180
acagtttgtt cgcactctgc aatctcatgg actgtggcct gccaggctgt tctatccatg 240
gaattctttg ggcaagaata ctggagtaga tagccactcc ctta 284

<210> 34626
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E2

<400> 34626

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tctgagtggg ataaaggctt tctgtgctac taatacatga aatagattga aaactatgaa 120

gagactgccg gatttgacaa ttagggaatt ttttgacaga attctcagtg agtgaagaag 180
acagacctga ctggaagtaa ttagaggggtg aagtggctgt gacgtattgg aaccaataat 240
ctttgggtgc taaggtgaga aatttgacag tgaaatgaat aagatacgta tgtttttgaa 300
tgtatgtctt ttcttttaag cactagagac tttcaatatt tctgagaaag atgggtgacca 360
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<210> 34627

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E3

<400> 34627

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agaatctgcc tgcagtgcag gagacctgag ttcgatccct gggttgggaa gatcccctgg 120
aaaagggaaa ggctaccac tccggtgttc ttgcctggag aatcccaggg atgggggagc 180
gtggtgggct gccgtctatg gggtcgcaca gagtcggaca tgactgaaat gacttagtaa 240
cagcagccgc agcaccact ccagaattct gtcttgaga attccatgga ctgtatagtc 300
catgggggtcc caaagagtca gacacgactg actttcactt tccagtgggt aagactctgc 360
ttccagtgc aaggactctg gttcgatccc tggt 394

<210> 34628

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-E4

<400> 34628

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gcaaaataca gctcttcatg aagcaactct gcttgccgg gcaggaagg agtgcacgc 120
tgcttactg ggatgcaacg ccagcgtcca gaagaagaat gcgagaggcc agacggcata 180
cgacctggcc ctggaaagtg gggatgagcc catcacctcg ctctttgctg ctaagcttgg 240
cctggatgaa cgctaagcct gaaagcccca cgggcatcat tcagagaagt caccagctc 300

cggctgtgct gtgttcgctt ccttccaaat gcatattcga ggtttggaat tcgagcttga 360
gagccactca taagatntta aaaactatgt gacagtgtaa gccacccatg 410

<210> 34629
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E6

<400> 34629

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gcggtttcga tgcgggagct ctggtacgtg gcaggcgggc gtgcagctgg gagtgtcccg 120
tgtggtggac gctgctcaca caccttagga gcctgatcgg cgcgtgcgga gaagggacgc 180
ggagcggact cggccggggc ttgttgggtc ccgcgacggc gcatgcgcgc ggggaccgca 240
gctgctcact cgacgaccta ctttctacgg agcccggccg gagggctgat gccgcgctgc 300
tcatagcggc ggctggacgt tccgggagcc tggcggtgac cgtggctatt gctagagcga 360
aggttacagg tg 372

<210> 34630
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-001-Q1-K1-E7

<400> 34630

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gggttaatca gaggtccac agagcggctg gccgtttggg gggccagtga agttaagagc 120
cagcccacct actggggacg ggggcctggg gcccagtcg agtctcttgg ggaggacgtg 180
cagggtgctt gcccggagga ggggtggggc cctgagacag cttgcctgcc tgcagatgcg 240
gctggggcgg ggcaacaggg aaggcctgcg gagggcaggc tgtcggccta ccggcctncc 300
aggagctgct cagatcccat cgtcatccgg gcacgtgggg acttttaact ctggtgacag 360
tttcagctac ctttgggtca gggactgaaa ctggagaggg tgggggggtg gggtctttta 420

tg

422

<210> 34631
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E8

<400> 34631

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cgctttctag cacgttcgac agtgctacag gcatgcacac gggctctgctg cgtcataagc 120
aggaggagga cctgtacaat ggcgtatgca taccagggtcc tgtgtaggtg cctgtgctag 180
actagcgcct cagctcgcaa tggcatagat gctaccaata gcatcccagg tcgagatatg 240
attctaagga gagcatgctg tatgagtgtt ggcagtctta gactagtgtg gtacccctaa 300
ctacgaacag ggttcattga gatccgtgca ttatcatcat agagcttgga gactatgctg 360
actgtacatg cacatagatg ctttcaaaca gtgccctcag agttttgtt 409

<210> 34632
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E9

<400> 34632

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ccaccggggg cggtactggg gcaagttcta catgcctgag cgcgtgtagt gaggctcaag 120
agcaggaatc cgcgccttcg tgcccctgag ccagtccttc gggctctttg gtacctctga 180
tgtcataacc gaggagcagc atgtgaacag atgctctgaa aaactgtacg tcacctgtcg 240
gattctttta agtacattat attaaagttt gacggttagc tc 282

<210> 34633
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F1

<400> 34633
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 gctgatttga ccgcattagt catcttctat tattacctca ctaaggctgg agtcaattat 120
 tctcttgctg actcagaatt caaggatctt acctaccttg aacttgatta cttttagtaa 180
 gagagactag attgtgatca ctctacgaca aagaaatggc tacaatgta 229

<210> 34634
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F10

<400> 34634
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 ccaagtgcc aattttgtcc cgttttcttt gtgtatgctc ttgtatatag gatcacgtat 120
 attactttat cccagtctcc ttacgctgta ggtcattcct ctggaaaacc acacagatgt 180
 agtcctcatg cagacaggcc at 202

<210> 34635
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F11

<400> 34635
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 ctaagcttgg ccaagacgag catagtagtc atcagaagat ataactgaag gttcatctga 120
 atggcactgt gctggtgcct gtattcgagc ttggggagat gacatattta tgatggtaat 180
 acgtgaagcc tatctctttg gggggtgtac agctagtggg actgagagca gtgcaagaca 240
 tagtaagagt gtctgagctg ca 262

<210> 34636
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F12

<400> 34636

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agtgtctgat tcttcagct actccttggg tacatcacag ccagcttatg gtcttcagca 120
cttccaagag ctgcaactcc ctccagcact tcttacctac tctttcgctg ccagctggag 180
cttatgctca gctctgggca gtgctgatca caacccttct gtgggggaaa agtgagttag 240
agcatttggc tccagttttg gaaggccctt accttaccca taattctgaa ggctcctgta 300
gatctagaac cctccaatat catcacctat ctggctgcaa gggtcataat tt 352

<210> 34637

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F5

<400> 34637

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ccactcacga cagtgtgaa cgtctactga tatcatgcta ggcgctctac gactgtcaat 120
cattctaact cgatgctgta tgtcatgac ataacctgaa tctctgagt tacttctaag 180
atcgatatctg agaggggtacc gtcgacttga agcatacgaa taatcttgag cacaagaacg 240
gcagtgcctt agtactttcg aaaagactta ctgctcatct acaaatagat gctgcctaaa 300
taaagatctt aacagatgac tttcagtatt gaggatccat ga 342

<210> 34638

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F6

<400> 34638

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cctaaggctc aacgggtgcta cgtaatatgt tcaattgcac gtgtatcgag tgtcatgtaa 120
cctaaactca gcgttgatag ccatacatca tatcagatgg atgaaggtta cctgtcatat 180

agtagccttag catctaacct agaacagatg caatgaatac ctgcccgcac catgtctgac 240
 tgacttacca cgattatacc agagctctga tgcgactgtt cataatggca ctgacaccaa 300
 ataatagaagc ccagatctgt ata 323

<210> 34639
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F7

<400> 34639

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 aacttgggtcg cactgcacta cgttagatat gaggctgcgc gtgtattgcg tgataatgat 120
 gttagtatga ggcattactg tgatgttcaa aatctgtaac ctgagagtta cctgtgagat 180
 aatacctga 189

<210> 34640
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E11

<400> 34640

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 cccaaggcaa gctggcccag acatttagcc atgcaccatt ctgttacctt gcgagtctga 180
 taataaactt gctgctgacc tgctgtgctc acagtagatt ctaaactgga ctaattattg 240
 tgggggtttta atgagaagcc taagtttgga aatccttaag cagtgatgtt gaaaaaaaaa 300
 atgaagccct gaacagttta aaggtaacaa tcctgtttct agaaagagaa agctgatggc 360
 aaaggcacat tccaagtgac ccgaatccag gtgcccccat cctgcaatag gcagtc 416

<210> 34641
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F8

<400> 34641

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ccttaggcgt tactggggca cgttatacat gcctgagcgc gtgtatcgag gctcatgtgc 120
aggaatctgc gccttagtgc ccattgacca gatcttcagg ttttagggta cctgtgatgt 180
cataaccgag gagctgcatg tgaacagatg ctctgaataa ctgtacgtaa cctgtcggat 240
tcttttaagc tcattatatt aaagtttgag cgttagctca aaatgcactg acaccacaaa 300
atggatccca gatcagtcta ataggacggt tattctatat ggtccaagct ta 352

<210> 34642

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C5

<400> 34642

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gcggacggga aactgagact cagtgttctg atgcttagag gagcgtgtaa cagaggcatc 120
atgcactatc tatactagcc agagacgaag cgagccaaat ctctaggtct tggacgtacc 180
tatggcgtcg tatctgaatt acataatcca gagcagatgc taagaata 228

<210> 34643

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C6

<400> 34643

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gatgctgaat atgttcactt ttaaattcca attctgtccc gatcttacag actctactgt 120
acttgaatgg ttaataaaac tgcacagtgc tgtaaaaaaa aataagaata cctatgatat 180
cataaccgac gagcataaat gtgaacagat gctctgaata actagacttg aacatgacag 240
attctattaa atacattaat ataaaagttt gagcagaacc aacaaaatga aataaaaggg 300

gctgcccttt ttaaggattc aaatttaa

328

<210> 34644

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C7

<400> 34644

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gtacttccag tgccccacct gccaaaaggc cttcctgcgg agctccagct tcatgaagca 120
ccagcggatc cacacggggg agaagccctg caagtgcgac tactgcggga agggcttcag 180
cgacttctcg gggctgcgct accacaagaa aatccacacg ggtgagaagc cctacaagtg 240
ccccgtgtgt gagaagagct tcatccagag gtccaacttc aaccggcacc agaggggtgca 300
cacaggtgag aagccctaca agtgcacccg ctgcggcaag agcttcagct ggagctcgag 360
cctcgacaag catcagagat cccacctggg aaagaagccc cgcccgtagc cgggctctct 420
gag 423

<210> 34645

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C9

<400> 34645

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ggaaccatac agtaaagatt ttcacggccc ttgaacaagg atgacacaaa ttcatgtagt 120
gttctatgta tttacatgtg gaataaaaaa aaaaaaaaaac tcatataaaa agagaacaga 180
tatgtggtta ccagaggcga gaagtgggag gtaggagaat tgggtgaaag tgggtcaaagt 240
tacaaacttt cagctaaaag ataaataagt agtaaggata taatgtacaa catgatgact 300
gtagttaaca ctattgtata cttgaaagtt gctaagagca tacattccaa aagttcttac 360
ctcaagggaa accaaaaact ttataaccat ataaggatgat ggatgttaag t 411

<210> 34646

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D1

 <400> 34646

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 gagactgccg gatatgtcaa ctagggaatt ctacagacag aattgtaagt gagtgatgaa 180
 gacagacctg actggaacta attagaggat gaagatgggtg tcacgtatta cataccaatt 240
 atctatgggt gatatgggtga gaagtttgac agtgtaatga taaagataca tctgattttg 300
 aatgctagga tgta 314

<210> 34647
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D10

 <400> 34647

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 tctttgggtcc atcgccact tgccacatgt tgtctttccc ttggctgctg gctcctgtgg 120
 gtcacactgc ttcttctcct gaacacttga catgttgagg gcagaat 167

<210> 34648
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-D11

 <400> 34648

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 gattagcact gtgggtgcta ggggagtgca taactggaac gtgaataact tcccatgtgg 120
 cctagaataa agctgactcc tatctcctga tatgagggttc agggtagcct gatgacctct 180
 agtacctcca actatgaggt ctgggcagtg caaccaagag catggatcag aagagagctg 240

tgaatagcca cgcatgggta gtgccatctc ccaactgaggc ttcagtcact gacatccctc 300
attccatggc agttggatat aatataacct tacagaatat gggatgtgtt gatgatactc 360
agctagactg ctaccttgcg cctctgttct cagactgggg ctg 403

<210> 34649
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D12

<400> 34649

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tttcaaagaa aggtcaacag agcctccatt cttggatctg caacttggtc tctgtaagag 180
gtcttcttta aatccaggac ccaggatagg aaaagggttt ccttgacagt ttacaggaaa 240
cctgcaggaa 250

<210> 34650
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D2

<400> 34650

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acagcctata tgatatgtct acaagcggct tctacagctg aattccaagt aaatagatga 180
cccaatccaa taatggacct aagaactgaa tggacatttt ttcacagatg acatacacat 240
gactaacaaa cacatggtaa gatgctcaac atcacttatt atcaagagaa tgctgatcaa 300
gaccgctatg atgtaccatt tcacg 325

<210> 34651
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D3

<400> 34651

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gaaatgcaaa aggccggctt ttgtgacaga gaatacacta acaatacaat gcgctccact 120
gctatctaata tcatgtgggc cgatcagctg attcacatat ttaacgcgta tgggaatgac 180
agtactagca ttgtgggtgcc tggatatttat gtcacattac agaaggtagc acaaacataa 240
aagctctttt acacgtgtga agaagatgtc agaataattat tgatggtaaa tgctcataaa 300
atggat 306

<210> 34652

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D4

<400> 34652

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gcttactgct agtactgagt cgatttctgc gattatagaa ttgttcgata cacatactat 120
ttgtctactt gatagttata caatcatttt aaaaactaga cc 162

<210> 34653

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D5

<400> 34653

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gatgacggca aagcgtgata caccttctgt gcttaaagag ctctaacagt gtcacatata 120
ctatgtattc tagatagata tgaaactgtt ttaatgaata aatattgtac tatctatggc 180
agagtagctt aaatactaata acacagatga tgctaagcat ttcacaggcg tcatcgctcg 240
gttaggaagt cacttactag gagggccatg at 272

<210> 34654

<211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D6

<400> 34654

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 tgcctactc tccacttcct ggaaggtgag gaggactctg agtcagacag tgaggaagaa 180
 gaggaagatg atgaggagga ggatgaagat gacgaagatg atgaggagga tggatgatgag 240
 gtgcctgtac ccagcttcgg ggaagccatg gcttactttg ctatggtcaa gaggtacctc 300
 acctccttcc ccattgatga tcgtgtgcaa agccacatcc tccacttgga acatgacctg 360
 gttcacgtga ccagaaagaa ccatgccagg caggcacgag ttaggggtct tggacatcaa 420
 agctga 426

<210> 34655
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D7

<400> 34655

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 ctacactcct tctcatgaaa tgagccctcg ggaaggtctc agtgcgctgt gcatgctgat 180
 gaccagccc ctgtgcacga ggccaattag ctttgtagcc agaggacaac aggtcaagcc 240
 atagtgccgg gggaggggag gggggcctgc tacaggaaaa ataagaagtg tgggtcccca 300
 gttgggttag gatgtgtggc tcttctcgga aacacgtagc atccctaagt cagagctttc 360
 tgctacactt ccggaagagg ctcgagagct gaggctgggg tccctctccc atgccaggc 420

<210> 34656
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D9

<400> 34656

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gattaggcct ttctgtggca agttatacat tacttagcac gtgaatcgag gctcatgtgc 120
acgaatccgc tccttactac cattaatcca tatcttatgg tctgaggtta cctgtgatgt 180
aataaccgag gagctgaact tgtacagatg ctatgaataa ctggccgtaa cctgtcggat 240
tctgttaaca tcattacatt agaacctgat cgttagctca taatgaactg acatcaaata 300
atggaataac aaatctgtct aaagggaccg acgatgtata tggaccgagc taacgaacat 360
cctgcttg 368

<210> 34657

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E10

<400> 34657

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aatggcgaat ttggtaaacg ccctgctgaa gatatggaag aggaacaagc ttttaaaaga 120
tctagaaaca ctgatgagat ggttgaatta cgcattctgc ttcagagcaa gaatgctggg 180
gcagtgattg gaaaaggagg caagaatatt aaggctctcc gtacagacta caatgccagt 240
gtttcagtcc cagacagcag tggccccgag cgcatattga gtatcagtgc tgatattgaa 300
acgattggag aaattctgaa gaaaatcatc cctaccttgg a 341

<210> 34658

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C4

<400> 34658

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gtttacaact attagaaagt ggagctgttc caaaaagaaa agatccgtta acacatgcta 120

gtaattcact gcctcggttca aaaacagtta tgaaaactgg acccacaggt ctttcaggcc 180
 accatagagc acctagttgc agtgggtttat ccatgggtttc tggcgtgaga caaggacctg 240
 gttctgcagc tgccactcat aagagtacac caaaaacaaa tagaacaaat aagccttcta 300
 cccctacaac tgctgctcgt aaaaagaaag acttgaagaa ttttaggaat gtggacagca 360
 accttgctaa ccttataatg aatgaaattg tggacaatgg gacagctggt aaatntgatg 420
 atatagctgg 430

<210> 34659

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A9

<400> 34659

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 ataagaggac acattggaaa gcttttgggg aacatcagaa cacaagtgct tataaaatta 120
 aataagcctt acacaaggat tcatattcct ttttaatttct aaaggggtta aacttagatg 180
 tagctgatgt gaaagctgct gtgcattgct atgggatata ctattcatgg gccaaattga 240
 tcaagtcaac cagttccttg gactggatca tcaaaagagg ggtggtgccc gatatactgg 300
 actagataaa tggaccaacc aactaaattc tctcaaccag gctgtagtca gtaaactggc 360
 ttaacagaga acagctttta cagac 385

<210> 34660

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B1

<400> 34660

cagggatccc taaggaggag gagttcaagc tgatgtacgg gatgctcttc tctatccgct 60
 cttttgtcag caagagggtcc ccgctagaca tgaaggacgg cttcctggcc ttccaaacta 120
 gccgctacaa actccattac tacgagacgc cactgggat caaggttgct atgaatacag 180
 acttgggcgt ggggcccac ctagatgtgc tgcaccacat ctacagtgcg ctggatgtgg 240

agctggtggt gaagaatccc ctgtgcccgc ttggccagac tgtgcaaagt gagctcttac 300
 ggtcccgact ggactcctac gtccggtctc tgcccttctt ctctggccaa gctggcttaa 360
 ggaagccctc tacctgacct ctcataagaa tccctgtctg cctggggccc aacttaacct 420
 gc 422

<210> 34661
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B10

<400> 34661

ggatcataca cattgaccaa gcaggattca ttcctggagg caagaacagt tcaacatatg 60
 cataccaata aattcgggat gtcacactaa cagaatgaaa gataaaaaatc atatgattat 120
 ctcaataggt gcaggaaaag ttttgacata atttaacatc tgttcattat aaaaagtctc 180
 aacaaaccag ctggaggaaa gagatgcacc tcagtacata aaggaaggcc acgtatatca 240
 agccccccct aacgccatac tcaaagatga aggactaagg actgttcccc caggaccaga 300
 atcaagacat ggatgcccac tctcatcact tctagtcaac agcactggaa gtccaaacca 360
 gagaaatcag gcatgataaa taaaagtc 388

<210> 34662
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B11

<400> 34662

cgacgccaca tgccaccgcg acttcattaa gaacatgac acaggcacat tccatgcgga 60
 ctgcgccgtg ctgattgtgg ccgcatgagt gggtaggttc gaggcaggca tcttcaagaa 120
 tgggcagacc cgggagcacg cgctgctggc ctacacgctg ggcgtgaagc agctcatcgt 180
 ggggggtgaac aagatggact tcacggagcc cggctacagc gagaagcgct atgatgaaat 240
 tgtcaaggag gtcagcgctt acattaag 268

<210> 34663
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-B12

 <400> 34663

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 tgggtggccta atcggagagg ggatgttacg tggccgacgc tgtgaagccc atattgtaac 120
 tgtgcaagcc tacgccgttc aagcctatgg tggaagcacg taggaagagt 170

<210> 34664
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-B2

 <400> 34664

 cggacgcgtg ggttcttatg tcagcaaaga tgttaagttt tactagataa gcagaaaaga 60
 taaatctcaa atgcagtgtt atttactctt ttcaaacag ttttcatttt ctttaagcaca 120
 ctgtacattt ctgtagaacc tgcatttttt cttgcacgct aaaaacggta cttgcgtctg 180
 gtgaattact gctgacagtt tccacagaaa cctgttttca gtggaccaac attgtggcat 240
 ggcagetaat gccagcattt tggggaatag cagctaattt acaagtgacc ttggttggtt 300
 aactatgttt gtttgat 317

<210> 34665
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-B3

 <400> 34665

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 agaaggaact ctacaaattc taagtaactg gctattatta ataagagtaa aaaatctact 120
 atacttcaat aaaatatttt aagacaaaaa ataggaagtt gcatgggata gccgagttga 180
 ctactaaaaa ttttatttac ataatttttc taatatgaaa attacttggt ttcagcccc 240

cttcacaatt gtatttttaa ttaagggttat taatgtttta acctagatca tataatggta 300
aattaatttt ttaaatttga tatccgtact gaacttgga aaactg 346

<210> 34666

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-B4

<400> 34666

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ctcaagttcc tcatggacct cggctgcaac ggcgagccct gcttctcgtg tctgtaccgc 120
aacggcccgt acccgccgc cccgcgcgcc tccaacaggt tcaatgatgc gccgcctcg 180
gacaaggcgc ccagcgcggt ccagttctgc gagttcctgt ctgccccgga cgtgagccgc 240
tgggcagggc ccatcatcga tgtactcttg gactacgtgg gcaacgtgca gctctgctcg 300
cggctgaagg agcatattga cagcttcgag gactgggctg tcattaaaga gaaagcagaa 360
cctncaagac ccctggctca tctgtgccgg ctg 393

<210> 34667

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B5

<400> 34667

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aggtgatttt tttgcaacca aacaagtaat aaatattatt tagcactttt atctatttac 120
aaatatacaa cagcttatac actctctgca aggggcagca atcagagagg tgatgttacc 180
tgtcctacgc tttgaagccc ttattgaaac tc 212

<210> 34668

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B6

<400> 34668

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gaggctgttg gccaggggtg ggggagaagt gaccagcgct ctctgggtct tcccagggac 120
agctggagag cagtgaacc ctccctgca tgtgttcgtg gctccgcgca gccaggcctc 180
gccttggtc ctctccagat cctacagcag ggccaggact agggcctggc gagcagagcc 240
tctgggctgg ctgctggccc tggcactcag ctctggctt cagggaagca cacagcagtg 300
gacggactgt cccaggagca caggggtgat gcaaccaca gctgagaagt gccttaatgc 360
tgggaggctg aaaagtgggg gtggctcaca gtcttgcc 399

<210> 34669

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-B7

<400> 34669

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tgctcggcag ccgcgaaaca gcaactatgc gtgagtgcac ctccatccac gttggccagg 120
ctggtgtcca gatcggaat gcctgctggg agctctactg cctggaacac ggcattcagc 180
ccgatggcca gatgccaagt gacaagacta ttgggggagg agacgactcc ttcaacacct 240
tcttcagtga gacaggggct ggcaagcatg tgcccagggc agtgtttgta gacctggaac 300
ccacagtcac tgatgaggtt cgcactggca cctaccgcca gctcttcac cctgagcagc 360
tcatcacagg caaagaagat gctgccaata actatgcccg gngtcactac a 411

<210> 34670

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-B8

<400> 34670

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aggggggactc atcttcttgg gagcccgagg ggctttcaag gcgccatgct gctactgctg 120
 ctgggcctgc tgagcccggc ggcctacggg gctccggggac cggccccggg gtccgaggag 180
 ctgcgctcgg acttctcggc ggcgcgcacc accccgctgg agggcacgtc ggagatggcg 240
 gtgaccttcg acaaggtgta cgtgaacgtc gggggcgact tcgacccggc caccggccag 300
 ttccgctgcc gcgtgccggg cgcctacttc ttatccttca ctgcgggcaa ggcgcgcac 360
 aagagcctgt ccgtgatgct ggtgcgcaac cgctacgagg tgc 403

<210> 34671
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C1

<400> 34671
 actgaaggca cttaaagtgt gtattttatg tcataaaagg gcaaacatgt taaaaacaga 60
 taggtccttt tatcaggatc atcattttac agaattggaa attggagccc tgaaagggttc 120
 agtgatttgc ctgaggagat cacagctggg aagtgatgga gtgagggttc agactgtctt 180
 ccttgtecat gcacttatcc attgcctcta ctgtatcgca tgtgagtgtg catgtgtgta 240
 taaaaatgtg cttctgattg cctgtaggag ggttcacacg ttgcagagca ttagttctag 300
 gtagtgtaa cagtttgctg cggccctttc tgttaagttt catagggtgtg cacacatata 360
 tgagcaatag tgggatcatg ctgtatatcc agtttggatc tttttgcact ttgattggat 420
 atc 423

<210> 34672
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C11

<400> 34672
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 aaaaatggaa atctttaata caaactctga gtttctggct tttttaggaa agttaataa 120
 tctgaaatat tggttctgca ttagagctga gattaagtcg ttaactttct cctctgtgtt 180

ggatatatag ttttcagtgt gcctgagtc tacatttcag tttgtgatat atagtcagac 240
 tgagtgaagt gatctcttga tatttctttt ggttctacaa tttaaatatt cttgaattag 300
 aatttaattt ttctctctag aaaagcattt tctatacttt gctctgtaga acaatgcttc 360
 tacaaaaggg taacagatga caaggtcttg acggtcaa ataaattggaa atgctga 417

<210> 34673

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C12

<400> 34673

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 aatgctatgg tacctatgtt gtatattatt gtaaaattat tacataattt tagtaaatca 120
 tggggtgacg atttgattat tacattttta gttttcagta attaaaaaga tttctgtgaa 180
 ttcttaaaaa aacaaaaaga aaatcattga attactgtta cctggcacia atttgctata 240
 aaatctgect ggggtggatga cccgatgca tgcattgggt ttgagggcta gttagccatt 300
 ccattgaact tccatttgaa agatatgagc aagctttgtc ccaatccatc aagggagtct 360
 gtttccaacc actcatatac actgaattag aatata 396

<210> 34674

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-C2

<400> 34674

aataatcaga tgcgacctaa tcaaacttac aagcctctgt gtaacatagg atactacggg 60
 ggtcacaaaa agtcagag 78

<210> 34675

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A8

<400> 34675

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tacttatata agagtcctag agtatgcaac tgggtgaaacc agaggctaca atccagtatt 120
actgatacga gacatgtatg attctccact gttgtacatg tatgagcttg gagtactgta 180
tactttaaca cactcaatac taggtagtgg agagtacact gatgtacatc ctaaatagcac 240
cactctgtta acattttaga tgaaagtaca ccgagctccg atataggcta ctccagataa 300
cgctgcttaa ttgacactcg tagcttatgg taaatagttc ttaagaagtt caaggccact 360
aataatgtat agtacaagta cgcgctt 387

<210> 34676

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-001-Q1-K1-C3

<400> 34676

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gagtacaaca agtctgttta tagtcacatc gtttatttaa cttatatgca gagcacatca 120
tgccaagttg gatgagttac aagctggaat caggattgca gggagaaaata gcaacctcag 180
acttgtggat gatatcactc taatgacaga aagcaaagag gaactaatga gacccttgat 240
gaaggtaaag gaggagagtg aaaaagccca cttcagactc aatttgaaaa aaaaaaaca 300
naaaacaact aatatcaagg catccggtcc catcgcttca tggcaaatag aaggggaaaa 360
ggtggaagca gtgacagatt tcctcttctt aggctctaaa atcactgggg attatgact 419

<210> 34677

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A1

<400> 34677

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atgctaaagc tcaaagtcca atactttggc cacctcatgc gaagagttga ctcatggaa 120
aagaccctga tgctgggagg gtttgggggc aggaggagaa ggggacgaca gaggatgaga 180
tggtcggatg gcatcaccga ctcaatgggc gtgggtttgg gtgaactcgg ggagttggtg 240
atggacaggc aggctggcg tgctgcgatt catggggtcg caaagagtca gccatgactg 300
agcgactgaa ctgaaccgag cctcagtttg caaagttaga cagttggaaa tgcaagttta 360
gatcccaggg tttctgactg gaaacttgat atct 394

<210> 34678
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-001-Q1-K1-A10

<400> 34678
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cctgctcaga aatgaatggt cgttacttca gcaatgaatt catcgtggag gtcagcgttc 120
tgcacagcgt gaaccgggtg gcccacccca gccacatgct cagctcccag cagttcctgc 180
accgaggtca ccagccaccg tctgagatgg ctggacacag cctggccagc tcccaccgca 240
actocatggt tcccagtgcg gcgacctca tgatcgagga gtgcgtgggc tatctggtgc 300
tcatggtcat gctgggtctc gtgcgcattc actgactgca ccgccgcgtc tcggaggcca 360
gtgggcctgc cggagccttc agcgacccca aggatcccga tctcttctgg gatgactcag 420
c 421

<210> 34679
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-001-Q1-K1-A12

<400> 34679
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tgcgccagt ctactcttgg gcctgttgaa taaatttctc atcgccaaga aagtgcttta 120
tttttatttt taatttctag cattccttac actctaacc tttcctctgc gccctgttcc 180

tcacagccgg cctgcagcat ccctggcacc accctacccc caggtacctg aagtttagca 240
 tccagcatgg gccacatgac cccatcatgt cgggtgtgctt gccagcaac ccctgggtca 300
 cagacgacga tgcctactgg gccatgaacg ctcccaggtg agcaggtcgg ccaaggggtgc 360
 acgagtgcgc accccattcc tgacactctt gaccgcctcg tcctttacca actcggtc 418

<210> 34680

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A3

<400> 34680

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 gcaggtggag ctgagcacca tgtaccggca tatggagaag cacaactacg agagcgcggc 120
 ggaggccatc caggccgtgc gcgacaacaa gctgcacgct ttcattctggg actcggcggt 180
 gctggagttc gaggcctcgc agaaatgcga cctgggtgacc acgggcgagc tcttcttccg 240
 ctccggcttt ggcatcggca tgcgcaagga cagcccttgg aagcagaacg tctccctgtc 300
 catcctcaag tcccacgaga acggcttcat ggaagacctg gacaagacgt gggttcggta 360
 ccaggagtgc gattcgcgca gcaacgcccc tgctaccctc accttcgaga atatg 415

<210> 34681

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A4

<400> 34681

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 tactgatgat atagtcccag aacacactgg ggggtaaatg ggtgtgacag gtaatgttag 120
 ttttcatttc atttagtttg aggtccccta agagctgctt cctttttttc ttcccgtctt 180
 gttctctttg tgagagactt tgaaggccaa gttctaagga aataaagagt aatttagatt 240
 taaagatggt taggaggcgg ttacacaaag aaaaagtata tgagctacaa acaaactctg 300
 ccccatatgt gcgggtctttt attttctgag agactgctgt gaatcccatg gtactccagc 360

tcacattctg ttgacatgta tgtcagcagg actgggtttt gtcgtcacgc gtgcctggcg 420
tc 422

<210> 34682
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A5

<400> 34682

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tccatgaccc taactgagcc tttgcttagt tttcaggaag aattgctatc ctttaaatac 120
taccctacaa aactgaacaa atcactgtcc atatctttgg gacagtctcc tttccagata 180
ggccaggaca aggatacata catttcactc atttatcaca tgaagcagta tgtcatacca 240
gaaaaacatg gcttaagaat caaaggagac ctgaattgta gttttgccac cgggtcccat 300
tatctcttca ggcaatttcc tcagtttctc tggatgcaga ttccgcattt ataaaaggga 360
tagtcagacc ctattggtaa gattctgtaa cttggtaaaa atcatatgcc aaacacc 417

<210> 34683
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-A6

<400> 34683

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gttcatgac gtaagatgaa cacttgctac agctgtcaag cataatcgct gtcctgtact 120
tactaagtta gacatgtcag cagatgagct cgctatatct gtccctacaa cctgcctttc 180
agatcgaacg ggacagagat gcatacattg aagtcattta tgagatcaag cagtatgtca 240
tacgagaaca acatgcttaa ccaatcacag gacacctgaa ttgaagtttt gccaccggtt 300
cccattatct cttcaggcaa tttcctcagt ttctatggat gcatattccg tattgataaa 360
agggatagtc aaaccctatt ggtaagattc tgtaactggg taaaattcat atgccaaaca 420
ccc 423

<210> 34684
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-001-Q1-K1-A7

<400> 34684

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 caagggaacc aaggccctgg cccacccgcc cccccctg cccccagct gacatggaaa 120
 cccagccct ctgggccccca gccaggcagg gtgagggggc atctctgcca atctacctca 180
 cgggcccaca ctctgccggc catgccatgg atcatggggc gggaaggctc tgggggcaga 240
 aacaccactc cctggtcacc ctctcaccac aactggccc acagcagcca gaggggtccc 300
 ggagaagagg gggcagggag gagggcttgg ccccttcatg gggaaggaaa ccagcacgcc 360
 tncattctcc aggaggtgtc caagaagtgc cttaaattgg ttgcacagac caggtggttg 420
 gga 423

<210> 34685
 <211> 100
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-B9

<400> 34685

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 gtcataaaaa tgcggggcaaa cctatgatag ggcatagcta 100

<210> 34686
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-001-Q1-K1-C8

<400> 34686

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 tccaggcggc tgcaggcatc tcaacgtgga ccactgggtg ggtagagcc aggaaatggc 120

ccacctggct cttcaccccc aaggttgtag cttttatggg agcaggggtg gggggcggag 180
 ggctgctgca gatatgcacc agcctgggat accactatcc accagacctg ttctgacgtc 240
 atgagtgtca aacatgcctg ccagccccgc atgagatgtc atgacaacac tacgcacacc 300
 caataaagtg aatggatgac acacatcaga tacaccaag 339

<210> 34687
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-D8

<400> 34687

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 ggagagtaac ttcaggcggtt tctatcaagt gacagcctga ttagcagggc cgttactgag 120
 cggaggggcag tggagggcac cccaggaacc ccagctccta cagcagtgtt aaaaccctc 180
 cttcagaggc actggatagg gcgtggcccg tgacagccag gggccactcc actggctttt 240
 ggtgcccact gacccttttc agcagagaca caaaggcctc cagaggcacc aaggaggcag 300
 gatgggctgg gcaggtggaa agactggtag tttctcaccg aggctctgtc tctggcctcg 360
 atctcccc 368

<210> 34688
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-E5

<400> 34688

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 tacagtaatt caatcatgtt attttaatga attaaattaa aggtaagggtt taatggctgt 120
 ttcctcctcg ttaaaagtaa ttctgagctc acaggatcga tttaacattg tttagcctac 180
 tggagcaaaa ttcctgatgc aggaaatgtg tcaggctctg ccaaagtgat cggaatagaa 240
 cctatgctaa ccttcctata agcagttacc tgtgggaatt atgcaaaaaa tcaatctcaa 300
 ctcagggtga aagactcctt tacgcatact gtattagtta ctaaagtatc tgatatctac 360

agatgtatat taaaatagga tattcactct

390

<210> 34689

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F3

<400> 34689

aaaaaaaa atcttttttaa aaatggcggg tacctttaaa aaactacaac gaatacacccg 60

tggataatga aaaaaggaac cccaacaaaa ccacacattg tattcaaaaa acaacggggg 120

cccataaagc ggaaaaaaca tcacg 145

<210> 34690

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-F9

<400> 34690

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cgggggtcgg cactggggca agttctacat gcctgagcgc gtgtagtgag gctcaggagc 120

aggaatccgc gccttcgtgc ccctgagcca gtccttcggg tctttgggta cctctgatgt 180

cataaccgac gagcagcatg tgaacagatg ctctgaaaaa ctgtacgtca cctgtcggat 240

tcttttaagt acattatatt aaagtttgag cgttagctca aaatgaaaag actaatagac 300

gaaataaaca ataac 315

<210> 34691

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-G2

<400> 34691

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ggagatgtaa attttataag gctgactctt actaatcact atttcccctg tggtttggtta 120

tcagtacaat tctctgttgc ttaatctaga gctatgcaca ccaaattgct gagatattta 180
 gtagctgata aagaaacctt taataaaaaat aatgtaaata aatgaaatat agataaaacta 240
 tgagataaat atcattacgg catgtaatat taaattcctc ctgtctcctc tgtcagtttg 300
 tgatgtgatt gacattttgt agctagggtta aaattattaa aaattataga ccccaaaaata 360
 a 361

<210> 34692
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-001-Q1-K1-H5

<400> 34692
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 cacaaccccc cttaggatga aaatgaggaa tagtcaacgt aacgccccaa cgtgggtcctt 180
 taatccccctt ctaattctga atatttcgcg tgggtttact ataatgtcta ttaatacata 240
 tccttaatga tgataggatt agacaaaaaa agtgaaaatt ttcgtatcta aatcttcaaa 300
 tcgc 304

<210> 34693
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A8

<400> 34693
 cccacgcgtc cgaaaaaaaa aaaaaaaaaa attaaaaaaaa aaaaaaaaaa aaaaagaaaa 60
 aaagagaaaa ttaaaaaaat aaaaatatca caaacttata tacactaaca tacaaaattt 120
 tatctcttct atattttcac ctaaatttaa tta 153

<210> 34694
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-A9

<400> 34694

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agaaaaaaaa aaaaacaaaa aatcataaaa aaatccaaaa attacatata catacatata 120
acaatataaa ctcttctata atatcaccta aattaaattt actttccatc tttttacaac 180
ttaattttctt ttaaaacctt ttctttaccc aacttaatcc ctttgcaata catccccttt 240
tcttcatttt ccttaat 257

<210> 34695

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B11

<400> 34695

cccacgcgtc cgaaaaaaaa aaaaaaatTT aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gaaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaaataa aa 102

<210> 34696

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-B12

<400> 34696

ccagaaaatg cactggaaga cccagagttt caccgactgc gacatcaccc aactccttcg 60
cctcactgtc acgctcatcg gagcagcgac cgccgtgccc actgttattc ttactttccc 120
gttctacccc acctattgct cctccggctc ggcagacacc tctgactcgc tcttctgtga 180
caactggatg ctgcccgtag agacagccaa cacaggcccc tgaatctcca taccctcgcg 240
ctgtggagct tcccccaaca ctacatggac agacctcact acacatatga ctctccgctc 300
acctacgccg acgccctaac cttcacctcc aa 332

<210> 34697

<211> 301

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-C5

<400> 34697

ccagtgaaag aggaagcact gcttgtgtac atcacattag gttacaaata caaatcacca 60
 atagaaatcc gccgaaagga aaaggggaga gaaaggaagg ggaagaaaga attaataaag 120
 ccacaaatgc atggatgggt acatggatgg atggggcaca ccaactctat gatcgtatcg 180
 accgtgcgac attgtatggc aatgcacggc ggcgggcgca ggagcgatcg atcgccaccg 240
 tagtagcgcc tagccttgtg atctcaaata tgaacgattg tgactgactc tatccttctt 300
 c 301

<210> 34698
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-E4

<400> 34698

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaaaaaa ataaaaaaaa aaaaaaaaaa 60
 agaaaaaata agaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 115

<210> 34699
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-002-Q1-K1-F6

<400> 34699

aacttcatta ctcttctata ctgccaccta aattcaattc actgcccccc a 51

<210> 34700
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-003-Q1-K1-D2

<400> 34700

cggaacgcgtg ggacgcgcgc tgggcgaaat atcagatgaa tcacactatt tcatacaaat 60
gctggggata gcctttgagc aggcactac taccatgttg attttgtaac agcttgtgca 120
gaatcataag aaaccctagg acttgaccgc agccccttgc gcctacatgt atgcgagcat 180
tctacttggc agttcttgta aataatataa ccatacagta acttagcatt caaaatatat 240
aatgttatgg tattgaaaag aatatggcac gtaccattgg ttgaaa 286

<210> 34701
<211> 83
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-G10
<400> 34701

cggaacgcgtg ggaaaaaaaa aaaaaaaaaa aatagaaata aaaaaaaaaa aaaaaaaaaa 60
aaaggaaggg ggaaaacaat ata 83

<210> 34702
<211> 263
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-G5
<400> 34702

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agaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaataaaaa 120
aaaaaaaaaa taaaaaaaaa aatgttattc cattttaaag atacaatatt aacaatcctt 180
atattccaaa tataaatatt ttttttttgt tatttttaa ttaattaatt gccctttttt 240
ttaaaatttt taaattttga aaa 263

<210> 34703
<211> 178
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-004-Q1-K1-A4

<400> 34703

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ccagggttg cggcgccggc nncancang gcatgtggag catcatcacc cggcccatgt 120

tccagagcat gctgagccac cgcggcgaca gcggtgcca gggcgcttc tacaccta 178

<210> 34704

<211> 105

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-004-Q1-K1-H7

<400> 34704

cctttcatcc cacnttatat ctcttctata ttttcaccta aattcaattt acttgcctc 60

tttttataaaa ctttttaact tttaaaaccc tgtctttacc caact 105

<210> 34705

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-E10

<400> 34705

tcattcggtg acgcgcgctc tagcgcttcc aagccatttt actccatcct gcgaccacat 60

aacggagggg tagtttcaac gatatgcaat t 91

<210> 34706

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-B8

<400> 34706

cggacgcgtg ggaaaaaaaa aaaataaaat aaaaaaaaaa aaaaaaaaaa aaaaagagag 60

agaaaaaaaa aaaaggagg gaaaa 85

<210> 34707

<211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-C11

 <400> 34707

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 cctggtaaaa ggagcgttct cttccacacag ccttatgcaa actatcaatc agcccggttt 120
 gctaattggtg gtgcataccc tccggacctt agtctcatca caaatgcaag gcacaatggt 180
 cagaactatg ttttcgctct tcttactgga tatcatgata cacctgctgg tgttcagatt 240
 cgtgaggggtc tgcactacaa tccctacttc cctgggtggg ccatagccat gcctaatatg 300
 cttaatgatg gagctgttga gtatgatgat ggttcacctg caactgaagc ccaaatgggt 360
 aaggatgtcc tatcattcct ttcgtgggca gcttaacctg aaatggaaga gaaaaaactg 420
 atgggagtgga aatggatctt tctactatca ct 452

<210> 34708
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-E5

 <400> 34708

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 tacgcgtgcc gtgcgcgccc tgtggctgtg gctgcagtgg cgtctcgttg ggtgttttct 120
 tgttgtgagt tgtgacgaac aaaaaagggg gtgggttggg gtggtccggc gcaccgggaa 180
 atgacaggtt ttaatcaact tatattaacc tgatgaggtg ccaaaaaaaaa aaatcaaaac 240
 ctat 244

<210> 34709
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-006-Q1-K1-F7

 <400> 34709

 attttggttc ttattgcatg ggatgtactg ctctgtacat aatcatttac atttggaccg 60

aacc

64

<210> 34710
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-H10

<400> 34710

acgcggacgc gtgggttaaa tttaaataaa acatcatcat tattagttaa aaaaagaaac 60

<210> 34711
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A2

<400> 34711

ggacgcacgc tgcccgaacc aaaaccagag ccaaagcctg atcctaacc cgaaccaagg 60
ccagaacctt ggccaggggc aaagcctgag gcgaaaccga aaccagatcc aaagccagag 120
ccacaaccaa agccagagcc taatccagaa ccaaaaccag agccaaagcc agagcctaag 180
cccgaaccaa aaccagagcc aaagcctgag cctaaaccgc aaccaagacc agaaccagaa 240
ccaaagccag agcctaacc tgaacaaaaa ccgaaaccag aaccggagcc acaaccaaag 300
ccagagccta agcctgatcc aaaaccagag cctaaaccgc aacaaaaacc agagcccaaa 360
ccaaaaccag aacctaacc cgaacaaaaa c 391

<210> 34712
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-A8

<400> 34712

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agggaaagga atataaaaaa atccaaacaa aacaaacaca tactttcaac ttcaattact 120
cttctataat atcacctaaa ttcaattctc tgtccttcat tttaacaacat cttttctttt 180

aaaacccttc ctttacccaa cttaatcccc tttcaacaca tccccctttc accagctttc 240
 tttattccca atattccctc acctatctcc ctttccaaca ttttctcatc cttaatctct 300
 atttcaactc tcccttt 317

<210> 34713
 <211> 292
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-B1
 <400> 34713

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 aggaaatagg atggtaccaa ttcgttcaag ctatagagtt aggtcccaaa atgtgctgtt 120
 attccctcct gctgacatgg ggtgttggtta ttgcgacaaa tttgtgcttc tatccgccgt 180
 ggtcgacctt ttgttcttgc aatgaggaat tttcgtgac aattgatgca acatgatatt 240
 gtaagggcta aattggctca aaaaaaaaaa aaaaaaaaaa aaaaaaatta aa 292

<210> 34714
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-B2
 <400> 34714

tcttcgggag cgtggggcgc ggagttcagg cctctccacg aaacttcac ccatgatccgt 60
 gggattctgg gcgtggtgct gtgttcacaa acaccagtct gtcagtcctg tgttggtgat 120
 tctgctttcc gatacagatt ttggaccaat caaatcctgc attgtgttgc ttgcgagcag 180

<210> 34715
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-007-Q1-K1-D4
 <400> 34715

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attctttgtt ttaattaaac tgtctgggtc ccggtgtccg ttccaggtct gagtcggttg 120
 ttctactccc ggggaaggcc cctactgggt ccgttcctct tccgtcccca cgtccggtac 180
 tcttcgtacc gctttctcct ttctagcagc tcgaacattc tctcagcatt caacgggttc 240
 ggtgcctata cctcctgtcc caacctcat agcctatcct tttcccgaag ttacagatcc 300
 tcttttccgt ctttccttga ctacattttt ccattggcca tattcttttc accttt 356

<210> 34716

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E12

<400> 34716

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 gattcaacta caaactgtat tcaactgcaa tcattgtcca taacactcaa agccttacag 120
 attcacacat cattgttaag caagtaattt ttattactca taattatata ttgatgtcat 180
 cattgttact taaacattca 200

<210> 34717

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E3

<400> 34717

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 gcggtgccgt cgatttcgac aaggaagggt aaggtagggt ggtgaccga ctccagccag 120
 atgagatgag atccattgaa gccgacagcc gaaggttggg tgtaaaatat ggagtccatg 180
 agtgtggcgt ctcttctgtc ccgaggtgaa tgacacatac tgtagatcgt tgctctaaaa 240
 aaccaaaaat 250

<210> 34718

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E6

<400> 34718

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gcgatgcaat tgcaatgcaa gc 82

<210> 34719

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-E9

<400> 34719

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gtgtacaagg ggaagaagat gcccgggagg atgggaggaa ccaagaccaa gatcaggaag 120

ctcaagattg tcaagatcga caacaacctc cgggtgctca tgatcaaggg ggccgtgcca 180

gggaagcccg ggaacctcct ccgcataacg ccagccaaga tcgtcggcaa gaacatcccc 240

aagaactaga cttctttttt ttcagggggg tgaatgttga gtgtttgtgt ttgttaccct 300

gctacaaact ggatgtaatc ctttgccaat ttccagtttt tgaacacatg caacttcaga 360

ttagtaaaac tataacctgt ac 382

<210> 34720

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A10

<400> 34720

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taggatatga taacgaataa agtgcagaaa aat 93

<210> 34721

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-B4

<400> 34721

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<210> 34722

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-008-Q1-K1-C10

<400> 34722

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tcgagggcgg gcccgccgcg ggggcgtgcg gctcgggccg ggcttggagc gcaatnnngc 120

acggggccctt tggnnngcgc gaacgcccn ntaacgtggg nntcggggcg ggcgaaacga 180

gcagaggggc gccggttggc ttagcttggg attctnngga cttagagnng cgttcagtca 240

tttaatccgg cacaacggta nngcttcgcg cccactggct tttttcaacc aagcccgcga 300

tgaccaattg gtgtgaatca nnacggttcc tctcgtacta ggggttgaat taccttatcg 360

cggcgcggtc at 372

<210> 34723

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-C3

<400> 34723

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 55

<210> 34724

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-E9

<400> 34724

cggacgcgtg ggaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaagag 60

<210> 34725
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F3

 <400> 34725

 aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa taaaattaaa aaaaaaaaaa aaaaaaaaaa 60

 agaaaaagaa aaaa 74

<210> 34726
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-F8

 <400> 34726

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 atgggatgttt tcattaatca caacgccata acttggacaa 160

<210> 34727
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-008-Q1-K1-H6

 <400> 34727

 aaaaaaataa cacaaaatac gattttacaa ttatataaaa aacaataata aacaggg 57

<210> 34728
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-009-Q1-K1-B3

 <400> 34728

 cccacgcgta cgagcaaacc catgttggcc agcgcagcaa gagaatttcg aaggaccgac 60

acaaaatagt gcttgtagt tgctgaattg tccatttagg caacaaagtt ttgaaaacc 120
acaatatatta aaatactaaa taaaaaaaga aaaaataaat gaattt 166

<210> 34729
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-C8

<400> 34729

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gctatacaag tctattcttc caaatggggt gcgctgcaac cggagcagtg ctaacataac 120
atactaccac ctattccatg aaaactcgag tggagtggta agcaacaatg gtgatccctt 180
gttttggggg atctttctgt acacgtgtaa ttatcgtaa ctcagttgtc tatctatagg 240
cccatttcag cttgagtttt atggataact cggcgatcta tataggctca gtcacctgc 300
aacgcacttc agttcaaaaa cttcgatggt agcaaatggt tgtctgttca aagttgtttg 360
tatc 364

<210> 34730
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-009-Q1-K1-D3

<400> 34730

cggacgcgtg ggccgacgcg tgggcggacg cgtgggcgaa cacgttgaaa agggctggag 60
aaatttaatg atgacggcac 80

<210> 34731
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-009-Q1-K1-F5

<400> 34731

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cctgaccacc cacanaccaa taantttcta ncttgccacc aaattcttcc gggagttcaa 120
aataagcata tatcccgata ttcccaaata ggtcaacctt tttaactgcc tgctgaatcc 180
atgagcaggc tagagacaac ctggcgaact taaacatctt attagccaca ggaaa 235

<210> 34732
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A10

<400> 34732

tacgtcattt ctcttctata cagtcaccta cattcaatgc actgggtcaa ga 52

<210> 34733
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-A8

<400> 34733

atacctcccg ccccttctaa aaaacacaca ataattatac taaacactaa atcttagaca 60
ctgtaaaatt taataacaga tcaaccacc aacccaaact acaacctaac aaatcttcca 120
tcctcatcat tccccccaaa cccaaccttt tagccaaaaa cacattcatc gcacagctta 180
ctatccacca cataacccaaa atatccataa aaatatagct attacactta caccctcaaa 240
ctcccactta tcctacacct ctaaagtcac ttcacaaaat cgtactataa tcaaactcaa 300
cacct 305

<210> 34734
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-010-Q1-K1-B3

<400> 34734

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 tgggtttgat gttatgactc tagccacaga tcagcctgct ggaccagttt cagcaacgcc 180
 taaggtagct aatgccagag atgatgataa gttcaatgat ggcatgtacg aagacttggtg 240
 tgtagatgat gctgacctta cattcgagga ttatgaagag ctatttggtg cctctcacat 300
 tcgaacagag gaactctntg atgacgctgg aattgacggt tacttcgaat tgaaagagac 360
 accacctttt tatttcaacg agcagcccaa agctatgcag atagaatgtg gcaacgtggt 420
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<210> 34735

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-D4

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 gcaacactag ctacttttag gggtcgacca caaacaaaat aaagcgcgct gtcaagcttg 180
 aagaaatgag aaactaaggg tggtagtagc gtactatata gttagctatc actagacctc 240
 aacttgatgg agaaccaccg ggatgagctc atcagtgtta gtgtggagaa tagttgcagg 300
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<210> 34736

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-010-Q1-K1-F4

<400> 34736

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 aaaaaataa ttaagagaaa aagtgagaca t 91

<210> 34737

<211> 84

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F5
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 <210> 34738
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-F8
 <400> 34738
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 <210> 34739
 <211> 71
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-G8
 <400> 34739
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 gaaaaaaaat a 71
 <210> 34740
 <211> 74
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-010-Q1-K1-H8
 <400> 34740
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 actacctttt aaat 74
 <210> 34741
 <211> 58
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-011-Q1-K1-A8

<400> 34741

agaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aagggcgg 58

<210> 34742

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-B7

<400> 34742

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aaatgtattc gatagacacc cagaagcaga aggtaaaata agaggctactt tattgcttac 180

tctatctttt atggaagcta taacaattta tggactgatt gtggcactag cgcttttatt 240

tgcaaacctt cttgggttaat cctagtgatc aaacaaccac aatatgaacc actt 294

<210> 34743

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-D2

<400> 34743

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acctgcagaa aggaagtatg ccgtactttt gtgcttcagc agcagcaatt tcgagtcgaa 180

gccaaactcta tggggcctgg tgacggtgct tggtttatgg aatgggatgc agctgcgcag 240

tcgatatgga tcagcacctg gacttgtatt tgtgctgtac atcccggccg ttgtacatga 300

actaactgta ccctgtgacc tcaccttgtg tacataaatg gtcttttattt atttgaaaaa 360

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatatataa 409

<210> 34744

<211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-D7

 <400> 34744

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 gagagaataa cgcagagctc tctgctcccg gcctgtcttc tgccgtcccg gccgtttaat 180
 ttactagtgt gttcgtccta tatgtttagc agcagcaggt gtattgtgcg ggtatgtaat 240
 ggtattgcaa ctatattggg tgtaaaacca taataaatgt gggcaaatat gcaaggaaaa 300
 aaggcttcta cttctaaaaa aaaaaaggca taaaaaagca caacgcccaa gactctatgc 360
 tcaaac 366

<210> 34745
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-E3

 <400> 34745

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 gggag 65

<210> 34746
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-012-Q1-K1-F3

 <400> 34746

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 tcctcggagc acgatgaagg ttgttgctgc ctacctgctt gctgtctctg ctgggaatgc 180
 cagcccctcc gctgaggatt tgactggcat tctggagtca gttggctgtg aagttgacaa 240

tgaaaggatg gaactgctgc tgtcccaact gagcggtaag gacatcacccg agctcattgc 300
cgcgggcaga gagaagtttg cttcagtcoc atgtggcggc ggcggtgtgg ctgttgcggc 360
aggtgcacct gctgctggcg gagctgctcc tgcagctgag gc 402

<210> 34747

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-H4

<400> 34747

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cacatcctga cttcctctac atgaaagcat acgtagtgc cacctattgt tttcttctca 180
gcggacccaa tgagtaacta caccatgtta cgaataaaag cgagggaaaa tcggatgagc 240
aacttttgca gctatatgaa atgcactttg aaaaatcacg tcttgaggac gaaaaacacg 300
ataaaatgga cttgcctact tttgcaccga ataaactcat aagtaatcca atttccgagg 360
acacgaacgg aagtaagctg attttggtat tcgtatcgga attagccaga agaagaaacc 420
atgttcactg cccttcattc tctggcctga ctgcctta 458

<210> 34748

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B12

<400> 34748

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accgcagagg ccgcctccc ccggtctacg gcggctacgg ccagccaccg ccacccgacc 120
cgtacggccg cgcgcccgtc gaccccgatc cgtacggctg acctccgcc cagtccgcgt 180
acggtggggc cggggacgcc tacggccaca gcggccaagg ctacgcgcc ccgccggcct 240
acggcgccgg gggcggttac ggcaacgtcg tccacgtcgc gcacgaggtc ggcgacgaga 300
ggccttacta cggcgggcgc ggcgggcggtc ttggtggcgc ctacggaggc ggtggctccg 360

agtacggcca cgagggccga ccgcaccacg gcggcggcgg atcccagtac ggccacgaga 420
cacgcccga cc 432

<210> 34749
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-B8

<400> 34749

atttggaactt gtgtgaattt gtgataaaaa aaaaaaaaaa aaaaaaaaaa aaaggaggg 59

<210> 34750
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-F1

<400> 34750

aaaaaaaaa aaaaaaaaaa aaaaaaata aacaatataa aaaaatccaa aaattacaaa 60
cgcatgcata caaaataaaa aaggctacta taaaatcacc taaaatacaa ttcaatgacc 120
gtaca 125

<210> 34751
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-013-Q1-K1-H12

<400> 34751

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gagctactaa aggcacaagc cgacatatgg cggctcagcc tctcctacct cacgcccctg 120
tcactgaggt gcgccgtgga gcttggcatc cccacggcga tctaccgcca tggcgggggct 180
gcctcagccg ctgagctggt cacggcgctg tctctcccct ccaactaagct gccgttcctc 240
cgccgcctgc tgcggctcct cgccgcgtcg ggcgtgttca ccgtcgacaa gcagagcacg 300
gaggaggagc ggtaccgcat cagccccgtg tctacctcc tgggtggacgg catccctcac 360

gaggaccaca tgaaccacac cgctctggtg ctcacctgca cctcgacgcg ctacatcgag 420
gcggngatag ggc 433

<210> 34752
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-013-Q1-K1-H4

<400> 34752

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ttgggatctc aacacacacg tcggtctcct gttcatttga ttcattcttt tacataatga 120
tgcaatgcaa ttattgagat ttcgaatcta aaaaaaacia aaacaaaaaa aaaaacagag 180
ataatcacia agacaagaaa taaaatgaat atcaaaaaac taca 224

<210> 34753
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B12

<400> 34753

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ggcaagatat atgtatgaaa tgaataaata tt 92

<210> 34754
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-B4

<400> 34754

accacgcgta cgaccacgcg tgcggttgag accgaaatgt agagattgag gagattcttc 60
ggaaaaaga 68

<210> 34755
<211> 449

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-E10

 <400> 34755

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 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
 tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
 cagacgcgca ggcgggagct cgccgccttc ttcgccaga cgtcccacga aaccaccggt 300
 ggatgggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
 aaacagacgg accacccta ctatggacga ggaccatac agctaactca taagtacaac 420
 tacaggctcg cgggcaagc gctgaacct 449

<210> 34756
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-E11

 <400> 34756

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 ggcgccggg ctgccggcgc cggcgcgag catggcggtg ggagcatcat caccggccc 120
 atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
 tacgacgcct tcatcgatgc cgccagtaag ttccccggct tcggcaccac cggcgacgag 240
 cagacgcgca ggcggtagct ctccggcttc tatggccaga cgtcccacga aaccaccggt 300
 ggatgggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
 attcagaccg accacccta c 381

<210> 34757
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-014-Q1-K1-F4

<400> 34757

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acagacagta gattgctgct acgctcttct ttcggcttca atctgcgaag caaggcgtct 180
gatcccgttg aaccggacgt ccctaagaag ctaaccaccc cagcgaatcg agaactgact 240
cgttcgccgg cagcatgcaa atcataggcc gagcgcgccg agcggcgtct tgcctgccc 300
ggcctcgaag tagaaggcga gcatggcaag catggcgatg cgggcgtgct tgatctcggc 360
cagcttgagc cgctcgagct tgtcgacgtc ggggatgt 398

<210> 34758

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-G4

<400> 34758

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aagaa 65

<210> 34759

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-014-Q1-K1-H2

<400> 34759

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<210> 34760

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-015-Q1-K1-B10

<400> 34760

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cgacagcgac tgagatctgg tgcgcgagca caggtgcaac acaagtatgc ttgctggatg 120
gaggattcat accagctgat gctgatgtag tgtttcactg gtgtcatgca tgcattgtatc 180
gtgctattat aatcaaaaag aaaaaagaaa taacagtcag ggatgggttg tttgcc 236

<210> 34761
<211> 58
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-015-Q1-K1-B11
<400> 34761

cccacgcgtc cgcggacgcg tgggtctgaa gtaattgagc taaggaacga aggtcttg 58

<210> 34762
<211> 337
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-015-Q1-K1-C4
<400> 34762

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atgtggtaac gcaagaactg ttcttatgca tgcagcagcc ataagcattg ctactagggt 120
ttcatgcggg gcgaagcact tgggtctctgc cgtctgaacg ccgtcgggaat ctgcgaggcc 180
taccgagct gcgtccgtcg tcagataagg cagccgccgg cacggcaatg ccggatccgc 240
ttgtccgta ccagctcct ccggcgccat tcacgccgtc caatggggcc cagagccagc 300
tcgtctgcac cgggtgccgg aacctgctca tgtaccc 337

<210> 34763
<211> 79
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-015-Q1-K1-D11
<400> 34763

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ggaaggggaa acatgaaac 79

<210> 34764
 <211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-E3

 <400> 34764

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 aaagaaaaag ggcaaccaat ctataggata ccaaacttac atacacttac atgcaacata 120
 atagctcttt tatagtgtca ccttttttca att 153

<210> 34765
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-015-Q1-K1-F2

 <400> 34765

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 ctctgtgttg cttcatgttc tctgtctatc tactctcatg tatggcagtt tgggtacggg 180
 tatatcaagc atgttcagtc ttctttgggt gaaaagttgg ctgcgttgtg ggggtatgat 240
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 aagcaa 306

<210> 34766
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-016-Q1-K1-A11

 <400> 34766

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 atataaagac aagctaggag aggatcatga tgaggaagag agagagtgaaggaggatggga 120
 gactgggcat ctccccccac cattcttggc gagatcctca tcgatgttac tggctgggtt 180

caaataacat cctgtaataa aatttcttct ccaaagtaaa aaaaaagatg aagaaggtac 240
acgaagacaa agaaaaacaa acaaacc 267

<210> 34767
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-C5

<400> 34767

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atagcacacg cattggcaca acatcgaggc gggcgctgcc gtgatcactg ccctattcac 180
tgccaactat gaattcaacg agcacgacga caagaacgcg gccaaagacg cggcgaagga 240
cgcagacgcg gaccacgact ccgaccgtaa caaggagtgg cacaagaagc accgatcggt 300
ctgctgatca atctatcgat tgaactatct act 333

<210> 34768
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-016-Q1-K1-E3

<400> 34768

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ggagggaggg aacaacgtct cagctggatc tatttttttt tatgagatag tacagagtag 120
acatgggcta gcggaacgca gcacgagaac gaatccacag gagggtaaaa aaaaccgccg 180
ctgctccttt gagaggaggt cgggccatca gaagagtgac gaggcgatcg cggagaccac 240
ggcgagcgcg acg 253

<210> 34769
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-017-Q1-K1-C5

<400> 34769

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atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccagggcgc cttctacacc 180
tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca tgcgggagct cgccgctctt tcggccagac gtcccacgaa accaccctg 300
gatggggcgc tgctccggat ggaccgtttg cctggggata ctgccgggtg aaggaaccag 360
aacagacgga cccaccctac tatgga 386

<210> 34770

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F1

<400> 34770

aaaaatggca aacggacata cgcctgcatg caacagtcac aactcttcta tagtgtaacc 60
taaattcaat tcat 74

<210> 34771

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-F8

<400> 34771

aaagaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa agacaaacaa tctaggagaa 60
tggaactta caaacacatg catgcgaaat caatactctt ctatattgtc acctaaatta 120
aatt 124

<210> 34772

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H1

<400> 34772

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ttataaacgg gccagccaa actccccacc tgacaatgtc ttcctccctg atcgggccctt 120
ctaagccgta ctttttatcc aaaatgaggt tctgttcccc gcttccgacc caccgaataa 180
gtaaaataac ttttaaagta ctgttatctt acttgcacct ctaagctctc acttattcta 240
cacctttcaa gtcatttcac atattccaac tatagttcag ctcaacattt tctttttttt 300
cacttatctt ccctaacccc tttccctttg ctttggtttc tct 343

<210> 34773

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-017-Q1-K1-H12

<400> 34773

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa 90

<210> 34774

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C1

<400> 34774

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gggcgttggt tttaaaaagg gaag 84

<210> 34775

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-C10

<400> 34775

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 tggccataat ttacaagaac attctgtagt attagtaaga ggaggaaggg ttaaggattt 180
 acccgggtgtg agatatcgca ttattogagg aaccctagat gctgtcgcag taaagaatcg 240
 tcaacaaggg cgttctagt cgtttagat tcttatccaa gacttgtatc atttgatgat 300
 gccatgtgaa tcgctagaaa catgtgaagt gtatggctaa cccaataacg aaagtttcgt 360
 aagggtgactg gagcaggcta ccatgagaca aaagatcttc tttctaaaga gattcgattc 420
 ggaactctta tatgtc 436

<210> 34776
 <211> 71
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-E5
 <400> 34776

aaaaaacata aaaaaaaca aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaag 60
 gaagggaaaa a 71

<210> 34777
 <211> 144
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-F6
 <400> 34777

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 tattacctca cttattttca ttta 144

<210> 34778
 <211> 64
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-018-Q1-K1-G7

<400> 34778

ctgacgcgtg ggaaaaaaat aaaaataata attaaaaaaa aaaataaaac ataaaaaaag 60
aagg 64

<210> 34779

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-018-Q1-K1-H1

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ccggccggag actgcggaag ggaggcgtga cgccgtccgc ccgttccaaa caacggccgt 120
ccgccttaaa ggacccatgt ttacgtccgc gtcacatcaa ctgcatagct cttcgaatag 180
ggtctcctaa gttcaataca cgggccact 209

<210> 34780

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-019-Q1-K1-G6

<400> 34780

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gttcacttg gca 73

<210> 34781

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-B12

<400> 34781

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gggagtccta tgcaagccca attatctcat ggacacattt aaaaatgaat gcatattttt 120
aatgaataat gggtcaaaaa ttaaatt 147

<210> 34782
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-C1

 <400> 34782

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 tgaagcatga gggcgctcgat taatcgtccc ccgacgccga gcgcggagga ggatcgggag 120
 cggcagcctt ctctcggaga gatcattaac atcaagttgg tagagactgg ggagaaggag 180
 aagctaattg agctactccg cgagcgactc gctgagtgcg gctggaggga tgagatgaag 240
 gcactctgca gggcatatgc aaggaagaaa ggaagaaata atgtgacagt agatgacctc 300
 attcatgtta ttactccgaa aggaagagca tccgtgcctg attcagtga ggcagaactc 360
 ctgcaacgca tccggtcctt ccttatgtct accacacttc ggtagtcatt tgtcgcgctcg 420
 gttggagcct atatgtaaga tcattgggaa gtcgatac 457

<210> 34783
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-020-Q1-K1-D7

 <400> 34783

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 cagtatgttc cgacaatcac taatcatact caagtttggg gggttcctaa tgttgttgtt 120
 gtacatgaaa aggaagggat agaggttggt catctagctt ctggacgtac aatatgcaag 180
 cttcatttaa atgaaggagg cttcatgct gatattaatg gagatggagt tctggatcat 240
 gttcaggttg ttggtggaaa tggattataa gagcagactg ttgcgagtgg atcaatggaa 300
 gtgctgtacc ctgttgggca atcgctacat ccggtgtgcc agtgcgggag caacttttta 360
 acgtctctat ct 372

<210> 34784
 <211> 369
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E1

<400> 34784

aatctggaat tttggggggg aacgcattca tgttctggaa atttagcaga cataattagg 60

tccctgaaac tattccaagg aggagcatga ttacacacca gtgggggaaaa acacacacac 120

acacacatag aaaatggatc aaatttgccg gcgacaccaa caagcctgag atcactgctt 180

ctctatccta ccagagatct aaagaacagc atgacattat acagataggt tcatgacaaa 240

gtaacaagac aggcagttgg gagttgcatg gacagggtaa gtagtaatac actgattaat 300

actccagtta cgacagttca caggcaaacc cccttacact ctgataagca tggcatgagc 360

catgaccat 369

<210> 34785

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-E4

<400> 34785

gacgcgccct gttacggtgc attaatcgct gcgtgtgttg tggttactct catcgatgac 60

gcttacagtg gtcagttgcc tatagtccat ttcttttgat 100

<210> 34786

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-020-Q1-K1-H1

<400> 34786

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gatgtcccag atcctagaca ccggcctcga ccgccacacc ctgtcgctgc tcatggcgct 120

ttgcgaccgc ggagccaacc ccgaggcatt ggccgccttc gtccgcgagc tctcctctgc 180

tgctccccc aacctcgccg cggcttcctc ccccgtagc aacggcgccg cggggccggc 240

ctcggcaatt gcgcccacgt tctcctccgg ccttcgccgt ccctagggtg ctgctaaaaa 300

gtctgaatgg aaccggtgta gtttttcaag caagacaaga tctcgtctgt ggaatcgctg 360
gatgaaaaag attgccttta caattccatg tgcgcgctgc tgtgggtggtg tggttcgacc 420
acaaaacatg tggctggggtt catag 445

<210> 34787

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-C9

<400> 34787

aaaaaaaaa aaaaaaaaaa taaaaaaaaa atttaaaaaa aaaaaaaaaa aaaaaaaaaa 60

agaggaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 106

<210> 34788

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-D12

<400> 34788

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 108

<210> 34789

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-021-Q1-K1-F11

<400> 34789

gtgatgcgat tccaagcgtg ctctcggggc actgaggcgt ttagggaagg acgcgcatgc 60

acctgtgcag tgcagctgtg ctaccatgaa gtatttcgtg ctcttgtgctg ctagcttcgt 120

ttactttcga gttttcgagt aaggaataag atgcctcttg ttgcaatagt gataaagcta 180

atcctgcttg taattacatt tcgtggaatg gccattccgg caacatgtcc agtaaaaaaa 240

actttttagt ccataaaaaa cac 263

<210> 34790
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-021-Q1-K1-H5

 <400> 34790

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 catgggtgttt atcaatcgtg tacacagtct gtaaaccggtg tatcttggat gcatgttgtc 120
 gcgagcagag tacgtaggta tgaaccgatg tgtgcgcttg tgtctgacta ctctatctat 180
 gtagcaatga gttgtcagtg tgtgctttga t 211

<210> 34791
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-C2

 <400> 34791

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 actctaaaaa gatccagaat aacatactca tacatacaac aacataaaact cttctataat 120
 aaaacctaca ttccaattca ctgaccatca ttttacaaca tcttaactac taaaaccctg 180
 accataccaa tcttaatatc cttacatcac ataccctttt tttcagcatc cttaatatagca 240
 aacaatccct aaccgctatc ccttcccaac agttcttcat cctgaatttc taa 293

<210> 34792
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-022-Q1-K1-D7

 <400> 34792

 cccacgcgtc cgtttgcagtg ttggctatgt tgtgtaagct ctatttatgg tgggtctcgct 60
 gagacgggta tttggcttcg cagttatcta gctatgtgat gtactgttgt cttgtccctg 120
 ggtattatat ggtacactgc agccagtaat agtaaaaaaa aaaaaaaaaa gacaaaacaa 180

gaacaaaaag aaaaaaaaaa aagcaaaaaa aaaaacaaaa aagagcacat agtaaaaa 238

<210> 34793

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-E4

<400> 34793

atTTtgagat gaatattgtg taagttatga ataaaatagt taaccactgt gccgttgtct 60

agaaaatctg catgacacga ataatccacg tacacggctg tactaaaaag atgatgaatc 120

tgtgggtggct aaaaaaaggg aaatagaaaa gtctggtaat aaaagttggt tctgaacaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aat 223

<210> 34794

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-022-Q1-K1-G5

<400> 34794

cccacgcgtc cggaaaagtt catgacatTT atatttgcag atatggacct cggTgggtttt 60

ggccacatta ggaaagctgg aatagccttt ttgaactcag atTTTTttgc taacagtggT 120

gttatggTga aacaaagttt tgtttgtatg taccaacagc taaaatgtaa acacgacatt 180

atcatagttg agtacaggaa taattatctc tt 212

<210> 34795

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-023-Q1-K1-A6

<400> 34795

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 96

<210> 34796

<211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-023-Q1-K1-E12

 <400> 34796

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 gcatggttca ctccacctga ggagtactat cacaagaccc atactcatac taatagaccg 120
 cggcctaaac actcggtgaa tcatgatctt taattaaaca ctacgctcaa aaccttaaaa 180
 tcccttcaca tatgaacaac accacctggt tttaaacctt tcgtacttac tatcatacta 240
 aatctgcata tctttcccca 260

<210> 34797
 <211> 161
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-E12

 <400> 34797

 cggacgcgtg gggaaacatc cagcactctc ctcccaactg ttttctctaaa gcgaaatgat 60
 aacacttctt aataattgtc tatacgattg aagctgattt gattggtaat tgtaaacaac 120
 ttgtctttgg atctttgaag tcaaacaaag tcagttgggt g 161

<210> 34798
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-024-Q1-K1-F7

 <400> 34798

 cccacgcgtc cgcccacgcy tccgtacacc ccgtcccca agcctccgac acctagagcc 60
 gacccggccg acgtacactc caagccccaac acctccgacg cccaagccga cccaccgac 120
 gtacaccctt tcccccaagc ctccgacacc taagccgacc ccgcctacgt aactccaag 180
 ccctaagcca ccggctacca agcctcccac gcccaagccg accccgcca cgtacacccc 240
 ttcgccaaag cctccgacac ccaagccgac cccgccgacg tacaccctt ctcccaagcc 300

ttcgacgccc aagccgaccc cgccgacgta cactccaagc cccaagcctt ccacacaccc 360
gacgcccgaag ccgacccac cgacgtacac ccctttccca aagccttcg 409

<210> 34799
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-A7

<400> 34799

aaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60
gaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaataa aaaaaaaaaa ggggcgcccc ttttaacggc cccatgttta attccccctt 180
cttgccccctt tttatTTTTT ttataggggc ccctaatttc aattatgtgc ccagct 236

<210> 34800
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C9

<400> 34800

aagcaagcca tgtggaggag ggcttttagcg atggctctgt tcatggctgg cgccgcgctg 60
ctcgccgggg ctgccggcgc cggcgcgcag cagggcgtgt ggagcatcat caccggcccc 120
atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccaggcgc cttctacacc 180
tacgacgcct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240
cagacgcgca ggcgggagct cgccgccttc ttccggccaga cgtcccacga aaccaccggt 300
ggatggggcga ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360
aaacagacgg acccacccta ctatggacga ggaccatac agctaactca taagtacaac 420
ta 422

<210> 34801
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-D9

<400> 34801

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ggttctctca tttctcacca ccgccgccgc taccctcttt cgacaacacc atgagggagt 120
gcatctcgat ccacatcggc caggccggta tccaggtcgg aaacgcgtgc tgggagctgt 180
actgcctcga gcatggcatt caggctgatg gtcagatgcc cggtgacaag accattgggg 240
gaggtgatga tgctttcaac accttcttca gtgagactgg cgctgggaag cacgtcccc 300
gtgctgtttt tgttgacctt gagcccactg tcatcgatga ggtgaggact ggcacctatc 360
gccagctctt ccctcctgag cagctcatca gtggcaagga ggatgcagcc aacaacttcg 420
ctcgtgggtca ctacaccatt g 441

<210> 34802

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-F4

<400> 34802

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aaaaaaatgg 60
aaggg 65

<210> 34803

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G5

<400> 34803

cccacgcgtc cgcccacgcg tccgaccacg cgtccgcccc cgcgtccgaa aaaaaggagg 60
aaaaaaaaa aaaaaagaaa a 81

<210> 34804

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-G9

<400> 34804

gccacgcgtt cgaccacgcg tgcgcccacg cgttcggcca cgcgtgcgaa aaaaaaaaaa 60

gcgggagaac aaaaaaagaa t 81

<210> 34805

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-A2

<400> 34805

cccacgcgtc cgcggacgcg tgggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

agaaaa 66

<210> 34806

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-B7

<400> 34806

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gtgtgctgcc atccgtcccc gttagacgat cgaggagaga ataacgcaga gctctctgct 120

cccggcctgt cttctgccgt cccggccggt taatttacta gtgtgttcgt cctatatggt 180

tagcagcagc aggtgtattg tgcgggtatg taatggtatt gcaactatat tgggtgtaaa 240

accataataa atgtgggcaa atatgcaaaa naa 273

<210> 34807

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-026-Q1-K1-D1

<400> 34807

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 agttcaacga ttggctcgtc catattagaa gaatggccaa gcagattggg caggcctcca 120
 taagccaggc gtcgttggct taccaaaagg gcgaggagat gtgtgcacgg cagaggggaag 180
 ccgaagcgca tagccatgct ggaccagatg agcatctgta tgccttggac ctggagaaca 240
 cggaagagga atcgacgctn tattttgatc tcacaccggt ttatcgggcg caccacatgc 300
 acacatgtct tgggatggag gacaagtta gagactatta ctacaagaac aggctgatgc 360
 aactcaactt gtacatgcag atcttc 386

<210> 34808
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-026-Q1-K1-D7
 <400> 34808

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 gcctagcttg aagtcaattt tcattggatc cgtgatctcg tttccaaaaa aaaaagtttg 120
 aaactggatc tgagttgaag atcttgggtc gtagttacc cagtacccca cctttactta 180
 gatctgagca tgtaaggtag tctttttgtt tccttctgca attttatgct atgtcattta 240
 gttgttttta gtttgattga gaagcacgtg aagagtaatt tcggtaaata gagaggatcg 300
 gtgcttcaaa atggagtagt agtttattat gaccttttga gattccaaat actgtcgact 360
 ntatgataaa atacttgaaa gttgaaactg tcctttctgg taagtccgta actctttcga 420
 agttctgaag ttgcatttgc 440

<210> 34809
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-026-Q1-K1-E6
 <400> 34809

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 gaggtgcagg tgggtggcttc ggaggtggcg gaggttcggg tgggtggcatc ggtggtggac 120

tctagaggtg gcgaggctc ggcgcgcgca cggtgagtg gtgcatgcc tgaattaaa 180
aagcgatata tggagtgtgt ggtacggtat ggacattgct agagttacat tacatcatca 240
ctagtatata taagggtgac tcttatttgt aagcctaataa aaagtgaata attggatgag 300
ttatgtaagc ctactctact atatatatgc ttgttttgg 339

<210> 34810

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-026-Q1-K1-F2

<400> 34810

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaataaa aaaaaaaaaac aaaaaaaaaa 60

aaaaagggga caaccgatct aaa 83

<210> 34811

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-027-Q1-K1-C11

<400> 34811

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 95

<210> 34812

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-B12

<400> 34812

aaaaaaacaa aaaaaacaaa aaaggggaaa tggttgaaaa aaataaaagg aa 52

<210> 34813

<211> 198

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-028-Q1-K1-D2

<400> 34813

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 aaatttaaaa aaaaaggcg cccactctaa aaaatccaaa caaaacttac ccctccttac 120
 cacgtcataa ctcttctata atgtcccctc ccttcacttc acttcccgcc gttttactac 180
 atcgtaactc ctaaaacc 198

<210> 34814
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-E4

<400> 34814

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 ggggactggt taatttaaag aaggagagc gcaacaccct ccgcttttaa ggatccgacg 120
 ctctttacac aggcattcca ccgtcatacc tcttctatag tagggccaaa cattcattct 180
 actgcccgtt aatttacaac tgacgcgacg tgtaaaaccc tgcgtgacc gaactaaact 240
 gcggtgcaac acatttcact ttcttcaggt ggcgttttat t 281

<210> 34815
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-F1

<400> 34815

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 cctacgcgtg cgagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aggggggtcg atttaaaaga aaaaaataa aaggcgcgtg catgcgaaga aaaaggtttt 180
 ctataagggt acctaaattt aattgagtgg ccgtgggtta aaaatacaaa aattgggaaa 240

<210> 34816

<211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-F12

 <400> 34816

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 aaaattaaaa aggggggccg atttaaaaaa atccaaactt acatactcct tcattcaaaa 120
 tcataactat ttttttattt cacctaaatt caatttactt tcccccgttt tacaacctcg 180
 tggcttgtaa aaaccttgcc ttttccaact taatccccctt tcaccacatt cccttttttc 240
 cagctagcct aataactaat aggccccgc ctttt 275

<210> 34817
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-G10

 <400> 34817

 tccacgcgtc cgcccacgcg tccggttcgc ccgccgccgg agttcgccgg gttegtcttc 60
 tccgttgctt ccgtccgat ctgaggatct ccattttcta ctagtacgta cgtgcaccgt 120
 tttcgtcgtt gctggatccg atgaagactc atccccctcca agatctacgt ttgcaatgga 180
 tggatctgcy catccgctga cttactagtc cgccttgcca acaatgagag atacatggag 240
 gagcgggagc catgggcggg tgtaaaatct gaaaaaaaag tgggtgagtgt gaatttggat 300
 ctggtggtga gtgtgaattt ggatgagtgt ggtgtttttg tcccagagtg aaagacacag 360
 actgttggtt gttgctcttg ttctacaacc atgctttt 398

<210> 34818
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-028-Q1-K1-G11

 <400> 34818

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ttgtcctttc agtcacgga tccccagaaa agatttcttg gttgtgctgc tcttgagtt 120
 ttgtagtagg gtgtccattg tagcaatggc aggggtgacc gttgcttggg tttgttgacc 180
 tgcgtagcac ttaagattgt gtatctaaag ttgtaggat tcatgttcat gcgattatgc 240
 ttggatatac ggagtgcacat cgtggagcat aaagatgact tgtacattcg tcttgttcat 300
 cgagagtcac gtgactttta tcaaaagaaa caaacatt gtgatatac tcacgatata 360
 tgtttttc 368

<210> 34819

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G5

<400> 34819

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 aatccaacca acccatctgt tcatcgtttc gggccctcaa ccaactgcacc accaccatta 120
 ttattactcc actattcttc gtccacctct tctcctccca tccccatagc cataggacaa 180
 atattttttt tttaaaaaaa aaggagatta aaatcaaagg aacagcgtaa taataataac 240
 accgaagacc ttgtctgcac gcctttcttc cct 273

<210> 34820

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-028-Q1-K1-G6

<400> 34820

accacgcgtg cgcaaaaaac aaaacttcta ctttcaacct tagcaaataa aaattgggct 60
 gtgtttatta agaaaccaga gccgaccac acatccattc aaccacatac ctacactata 120
 cccacaccaa acaacaaatc actgcctgtc tttttacaac ttacctactg aaaaaacct 180
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<210> 34821

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-B12

<400> 34821

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gaggaaaaaa aaaaaaaaaa aaaaagataa aaaaaaaaaa aaaaaataa aaaaggataa 120

gc 122

<210> 34822

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-C4

<400> 34822

cccacgcgcc taataaaaat aaaaaaaaaa tattaataa aaaaaataa aaaaaaaggg 60

aaaaagaaaa at 72

<210> 34823

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-029-Q1-K1-E5

<400> 34823

ggagtgtact tcaaggttct tgcattgaca gtatgtgtgt aacatttgtg atgaacatgg 60

aggcgatccg ggtaattctc gaataatcaa tgaactgggt aagattgtaa canataaa 118

<210> 34824

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-029-Q1-K1-F3

<400> 34824

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cacctcggac atctggcatc tgggtgcaag gtccatgtcc atctatgaac tctcttcac 120

aaccgacatc gttctgagaa gtctcgccgt gcgaggtcgg ccatagctcg ctccgcttac 180
aacatagata gcccaactcat ca 202

<210> 34825
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-E5

<400> 34825

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gaccgggtgg cgagagaccc cgtggtagcc ttcaagacgg ccatctggtt ctggatgacg 120
ccgcagtcgc ccaagccctc gtgccacgcc gtgatgaccg gcgactggag gcccttcgac 180
accgaccgcg ccgcggggag gctccccgga tacggcctga ccacgaacat catcaacggg 240
ggtctagagt gcggcgagga ccgctccacc gacggcgcca aagccgcca agaccgggtc 300
ggctactaca agaagtactg cggtatgctc ggagtggggg acgggggacaa catggcatgc 360
gggagccaaa agccttacgg aggatgatga cactagtagc tgatctat 408

<210> 34826
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-030-Q1-K1-G12

<400> 34826

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ttacccatgt tgggtactat ctatgtacta ttattatata caaaactata gttgtcctgg 180
ctgaattgaa ctcaaaaggg tttgtttgag aaaaaattgt cccaagattg gattgcttgt 240
taaagctcaa tattgttatt gaagtgttaa aaaaaagtag tctatcccta aaataaaaat 300
c 301

<210> 34827
<211> 259

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-030-Q1-K1-H2

 <400> 34827

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 gatgtgccgc cccagccaaa ctccccacct gacaatgtct tccgcccgga tcggtccggc 120
 gagggccgggc cttggagcca aaaggagggg cggtgccccg ctttcgaccc acggaataag 180
 taaaattacg ttaaaagtag tcggatttta cttgctcccc gaggcttcca cttatactac 240
 accttttaag gcattttac 259

<210> 34828
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-031-Q1-K1-G8

 <400> 34828

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 acctgtactc gacggtgtac ggcacggaca cggctgcgct gagcacgggg ctttttaaac 120
 aacggtgctt gttgcggcca gggttaccga atctcctgca cttaccaggc ggaccctcgg 180
 ttttgaatcc gcggaacgtc ggtgaccata accgccacca acctgtgccc tccaaactac 240
 gcgctgcca acgacgacgg cggttggtgc aaccgccgc ggaagcactt cgacatggcc 300
 gagccggcct ggctaaagat cggcatctac cgcggcggca tcgtgcccg tcaactacaa 360
 agggtgccgt gtgtgaagaa aggcggcgtg aggttcagca tcaacgggcg c 411

<210> 34829
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-031-Q1-K1-H3

 <400> 34829

 aaaaaacata cgncactctt tcggataaca tttttacaaa tcagtaaata tataaacaag 60

ggggggtat

69

<210> 34830
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-031-Q1-K1-H5

<400> 34830

tcttctccac tcgtactcca cacgtccgac cacgctttcg tccactcggt cgatataaaa 60
ataaggggaa aataaaacaa atctaactaa taacaaataa aaataataaa ataaataaaa 120
actaaaa 127

<210> 34831
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-032-Q1-K1-A6

<400> 34831

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angggctctga gctaaattcc aagggtgact gaatcaccct aggccttttcc attacctgtg 120
ttggttactg gaaaaccagt ccggtagatg cgggtttgcy cagaacgatg gagggttttt 180
ccctgcacat ttgatgtctc atgttcgcca ccaagtttca aggtttgtac cacaagatcc 240
atttattaaa aagaccacac agtgagatat ttaaaccatt attgtgacaa attatatatt 300
t 301

<210> 34832
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D5

<400> 34832

cccacgcgtc cgccgcgacg cggtcactct acatcgagca cgctcgccgc aagaccgtga 60
ccgcgatgga tgttgtgtac gccctcaagc gccagggccg cactctgtac gggttcgggtg 120

gttgagcgca tctcttccct cgtctgcagc ggctgccggt ggcgtttccct cagttccctc 180
 tgccttgctt ggcttgatgt agagagttat cagattaaaa tatctctgat gtgcttcggt 240
 attgggtgga atcatgtgtc ccagcagtgc tgggaaatcg agatcaagat gtatctttct 300
 ttgcagtaat gaaatgttaa aatcgagatc aaaaaaaaaa aatttttttt aa 352

<210> 34833

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-032-Q1-K1-E9

<400> 34833

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 tgaagaggcg ggtgcaggta tcgagtacca cgcgtccgtc naccagaatg aggtaccttc 120
 cgattcaciaa gggcgcacatc gcgcgcgacc aaacaccgat cgatgtgctg tgcttcatga 180
 ctcgctgcac cctacctacc gatgacccta ttccactatt cgctggcctg tatgctcatg 240
 acatgaccct ttctaggcc ccatgctgca tgtacagact tactaacttt ttcactctgac 300
 gc 302

<210> 34834

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-H5

<400> 34834

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 cacctacgat aagctgctct ccgaggtgcc caagtacaag cagatcacc catccatcct 120
 atctgagcgc ctcaggggta atggatcctt ggcacggagg gccatcaagg atctgatggc 180
 aaaggggctc ataaggatgg tctttgttca ttctagccag cagatataca ccagggcaac 240
 caacacatga ggggtgtttt gccgtctggg gaccgtatct aatctaaacg acttgatggg 300
 gctattatat caagggtaaa ttaatcgggg ctcgaacaat cttactgggtg gggtgaatgg 360

tgaaaatttt tgagattatt gtactatttt aagatcatgt ttttataaca tttaagacca 420
 tggtgccatc cc 432

<210> 34835
 <211> 80
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-033-Q1-K1-C1
 <400> 34835

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaatat aaaaaataaa aaaaaaaaaa 60
 agcaaacggg caaatcatg 80

<210> 34836
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-033-Q1-K1-C2
 <400> 34836

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 gcctaggcta atttttgata ttgataagag tgctcattat aaagcaatac ttgcgattta 120
 tttaagaatt gaccaaagca tcattagggt tcaaaataaa gaaaacccat cctagtggat 180
 ccgtatggta aggaaaaatg cctaattctat tcacttaaca aacatg 226

<210> 34837
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-033-Q1-K1-D9
 <400> 34837

cccacgcgtc cgcccacgcg tccgggcaaa acggatccgt aacttcggga aaaggattgg 60
 gtctgagggg tgggctcggg ggtcccggcc ccgaacccgt cggctgctgg cggaatgctc 120
 gagctgctcg cgcggcgaga gcgggcccgc gcgtgcgggc cgggggacgg accgggaacg 180
 gccccctctg gggccttccc cgggctcga acaaccgact cagaactggg acgggtatat 240

caagcaaaaa aaaaaataca aaaaaattat aaaaaaaaaa aaaataaaca ataaa 295

<210> 34838
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-E3

<400> 34838

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cgctgtgagt actcgtcagt ttgagggtcg tgtggtgatg cttgctaggt actagatggg 120
tggtattgct tatgaatgcg atgttgctcg gacagaactg catttcattt tgtattatgg 180
ttgttcaaga tgttatatta ccatgagggtg aggtagcttg actgaaaaaa aaaaaaagaa 240
aaaaaaaaaa aaaaaaaaaa aaacaacaaa aaaaaaaaaa aaataataaa taaaaa 296

<210> 34839
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-F11

<400> 34839

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ggagcctctc tacctaacga atagcatcaa gctaactaca aacctacctt cagcatgtgt 120
ctactagcta atcatatcgt gtgtacgagt atgaaagatg atgtactgtc accaactcac 180
ttgtgtatga taaaggatac atgataagac tatcactact aaaaaaaca tataaagaaa 240
gagcataacc aacttaaaat gtaaaaagct aaagtagaag aaaaacctaa gatcaatatg 300
aataaaaagg acgtcctcat c 321

<210> 34840
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-G1

<400> 34840

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 aaaaagg 67

<210> 34841
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-033-Q1-K1-G5
 <400> 34841

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 tcaaaattaa caggtgttga gcttcccgtc tataatctgat actacctgct actattttaca 120
 tattgatgtg aattcctctg ctgaagaaac actgatcaac gttatgaacc catacacaat 180
 aaccaaccat cgcaagctcc acacaaagge tgatcacaaa catatccttt aagccatcaa 240
 acttttatagc 250

<210> 34842
 <211> 62
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-034-Q1-K1-A5
 <400> 34842

cggactcgtg ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggagg 60
 ag 62

<210> 34843
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-034-Q1-K1-B2
 <400> 34843

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 actcgtttgg ggtcagctac ggcgaacact ttgtactgcg ccaaccagac gcccttcaa 120
 cgggctaaat taaataagct agctacctaa ccatgcatgc atgctttatt attagagaac 180

acatttagac ctgatcgata tgatgatggg tatgtattac ttactacac gcagatccag 240
 caatcaagaa tcaagcatat taacgcttac tcaaaacaaa ccaattat 288

<210> 34844
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E11

<400> 34844

aaaaaaaaa aaaaaaaca aaaaaagttt attaaaaaaaa aaaaaaaaaa aaacaaaaaag 60
 gcggaaaaa 68

<210> 34845
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E5

<400> 34845

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 ggccaatcta aaaaacgggt gcatacaaac aaaatggcca gcctatatgt tcaattcaag 120
 cttacatact cgtacttgca acttcttaga tctcatttgg tgtaccctaa attaaattca 180
 cttgccgcct ttttacaact atccgactgg gaaaactctg gcgttaccaa acttaatcgc 240
 ttcgaataac ataccctttt tacgagct 268

<210> 34846
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-F7

<400> 34846

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 attcatatc 68

<210> 34847

<211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-G2

 <400> 34847

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 taacttgctg cctgctcagt aattatgact ctattcagtt tgtaattgcc ggtgggagta 120
 caattatgca gctgtattgt ctgctaaaaa aaaaaaaaaa aaaagagagc c 171

<210> 34848
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-034-Q1-K1-G3

 <400> 34848

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 ttatgactct attcattttg taatagccgg tgggagtaca attatgcagc tgtattgtct 120
 gctaaaaaaaa aaaaaaacagc caaaaaaacac 150

<210> 34849
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-036-Q1-K1-A9

 <400> 34849

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 atcatcaccg ggcccatggt ccagagcatg ctgagccacc gcggcgacag cgggtgccag 180
 ggcgcttct acacctacga cgccttcacg gagggcgcca gcaagttccc cggcttcggc 240
 accaccggcg acgagcagac gcgcaggcgg gagctcgccg ccttcttcgg ccagacgtcc 300
 cacgaaacca ccggtggatg ggcgactgct ccggatggac cgtttgcttg gggatactgc 360
 cgggtgaagg aacagaaaca gacggaccca ccctactatg gacgaggacc catacagcta 420

actcataagt acaactacag gctcgccggg caagcgc 457

<210> 34850
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-E1

<400> 34850

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ct 62

<210> 34851
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-036-Q1-K1-H6

<400> 34851

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aaacggtaca ttcaaaaaaa taagctagaa tataatgtaa ccataaaatt caatt 115

<210> 34852
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-B2

<400> 34852

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agggcattgg ttccattaag taccgttgaa gagggcactg tgctgttggtg gagaacttcc 120
ttcatgagat aaatgggtcc ttcattagaa ggcctaattt atgcgcttta gctatttggtt 180
cataacttga gactcatggg ttaaactcga cttgttaaag ttttgatggc tactttgtgc 240
tcgaaggacc atctattatg agaagattgc aattttctca ctttataaaa 290

<210> 34853
<211> 59
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-037-Q1-K1-E6
 <400> 34853
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 <210> 34854
 <211> 53
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E1
 <400> 34854
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 <210> 34855
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-E2
 <400> 34855
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 cttggagcca cttggacttg gtggttggtg cagttaaatt ggggtgttca caagtgagta 180
 atcttttttt tttgtgatga cgcctagcat gtaaaaatgt gagctatgac atactgatgg 240
 gttacacatt ttgcaaaaaa aagaatt 267
 <210> 34856
 <211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-038-Q1-K1-G12
 <400> 34856
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 aaacaaaact tactactcga cgtcactgac agtgtcaggt acaacagagg tatacaaaaa 120

tacataataa ct

132

<210> 34857
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-038-Q1-K1-G6

<400> 34857

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ggacgcgtat atgcgagggtg atagatctta tatagtgtaa actaaattga attcactggc 120
cgctagggtta tcaagagcgt gaatgataaa accctttggt gaacgc 166

<210> 34858
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-040-Q1-K1-F5

<400> 34858

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gctgccactg gggctgctgc aaccgcgcct accatggctc ctgtcgggtgc tgctctcacc 120
ctgatcatat accatagccc atgtaccgtt ctgagctcgt cgaggaccac atctaaatac 180
taatgacatg cgctgctact atatataccg gtacctatgc actacgtgaa ccacatcaca 240
ctcgtagtac actcgtccta ctagtcaata caagttaagt tccatcacca cgtcatgaaa 300
taaaagtaac gaggttgcaa gcatctctgt gcgtgactga aaacgtcgac tgtatctcat 360
gcatggaata aatttaatag attatgtcca acacgtagc 399

<210> 34859
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-C5

<400> 34859

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agaaggttaa aaataaaaagt

80

<210> 34860

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-041-Q1-K1-D1

<400> 34860

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atcacccggc ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc 180

gcctttctaca cctacgacgc cttcatcgag gccgccagca agttccccgg cttcggcacc 240

accggcgacg agcagacgcg caggcgggag ctcgcgcgnet tcttcggcca gacgtccac 300

gaaaccaccg gtggatgggc gactgctccg gatggaccgt ttgcctgggg atactgccgg 360

gtgaaggaac agaaacagac ggacccaccc tactatgga 399

<210> 34861

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E1

<400> 34861

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cactctgcag aggttgtagc ctttaccac aagtcattgt acccatctgc caaggggtaa 120

cgactcccat acacctctac ctaggaagcg cggcagggca acactacgag gcctttacaa 180

agttccacta gtttccgaaa acccgctaca gtttatggga agagcacttg caagaatctc 240

ccgtctgacc gccatcgag ctaaataaac ccgagaacct ctttgcattg aacttcccta 300

ctgcccttgc ccctttcggg taaagtagtc ttccactagc tttcctaatt agtc 354

<210> 34862

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-E10

<400> 34862

cccacgcgtc cgaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gggaggaaat aaa 73

<210> 34863

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-E11

<400> 34863

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ctcgcggggg ctgccggcgc cgccgcgcag catggcgtgt ggagcatcat caccggccc 120

atgttccaga gcatgctgag ccaccgcggc gacagcgggt gccaggcgc cttctacacc 180

tacgacgct tcatcgaggc cgccagcaag ttccccggct tcggcaccac cggcgacgag 240

cagacgcgca ggctggagct cgccgccttc ttcgccaga cgtcccacga aaccaccgt 300

ggatgggcca ctgctccgga tggaccgttt gcctggggat actgccgggt gaaggaacag 360

aaacagacgg acccaccta ctatggacga ggaccatac agctaactca taagtacaac 420

tacaggc 427

<210> 34864

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-042-Q1-K1-G10

<400> 34864

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tccattccat gcgagcgcga ttgagttcgt ccatccaaca aactacgcag ttattcatgc 120

tacacacagc tcgcgtccca tgcgttcaga atttcagatc cagagctggc aaccctcga 180

tcaaaagaga gaagagggga gggaaaaaag gttcagggtc gacagagctg gcaaagttaa 240

ggagccgtct gccggggtcg tcgtcgtctt ctcccctcaa cagaaggacg ggacgacgcc 300

gtccgacgcg gctggcgccg accccgtggg cgagaagcac gccccttcct cgtgc 355

<210> 34865

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-A10

<400> 34865

aaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaagga 60

agaaaaaata aaaaaaaaag gaaaaaaa 88

<210> 34866

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B1

<400> 34866

tccacgcgtc cgctttttaa atgaaaaaaa aaaataaaat taaaaaaaaa aaaaaaaaaa 60

aaaaaaggaa agggatatta t 81

<210> 34867

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-B9

<400> 34867

cccactcgtc cgcccacgcg tccgtttggt cgggcctcgc cgggccgata cgagcgggag 60

gcattttcag gtggggaggg tggctggcgc ggcacatctg ttaaaagata acgcatgtgt 120

cctaagatga gctcaactca aaatagacag aaatatatac cgtatttgtc actgaaacaa 180

agataataaa aacaaataga tac 203

<210> 34868

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-G12

<400> 34868

ctgaaaatgc ttttgtgggg aaaaaaatta aaaaaaaaaa aaaacaaaaa aaaaaagggg 60

ggaaa 65

<210> 34869

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-B7

<400> 34869

ccggggcgac gcacgcgncc ggggccgcac cgcngggcga cccngagcnc ngngaagggc 60

ncgagnngga gcacgccggg cgggacccga aagaaggaga accangcccg agcggggcga 120

agccagagga aacacaggag gaggcacgaa gcgacaccga cgagcaaanc gnacgccgga 180

cgngggcaca ggggcgaaag accaaacgaa ccaacgagna ccagggcccc cccgaaggga 240

cccgaggag agcgggagcc cacacgagan caagcggaga aagccaacag acagaggcag 300

cgggggcgca acgcc 315

<210> 34870

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-C10

<400> 34870

aagccagtac cgagtcctac gagcagtcgc acgcaagtgt caagagacga aacggtcgac 60

atggctcgca cgcaatctgc cgtagcggtc gccgtggtgg ccgcggtgct gctgctggca 120

gcggcgccga cgacctcgga ggccgccatc acctgcgggc aggtgagctc cgccatcgcg 180

cctgacctct cctacgcccg cggcacgggg tccggcccct ccgcgtcctg ctgtagcggc 240

gtcaggaacc tcaagagcgc cgnacgaccc gccgncgaca ggcgcgccgn ctgcaactgc 300

ctcaagaacg ccgncagggg cgtcagcggc ctcaacgccg gcaacgccgn cagcatcccc 360

tccaagtgcg gcgtcagcat cccctacacc atcagcacct tcaccgactg ctccagggtg 420
aactaaacct agaccacgcg cg 442

<210> 34871
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-045-Q1-K1-B4

<400> 34871

cccacgcgtc cgattctcta cctacccacc tgtgtcgggt tcgggtacag gtacccttgt 60
gttgaaggtc gttcgagctt ttcctgggag tatggcatgg gttacatact tcagcgccgt 120
agcgcttggg atgagcctcg tggagaagca atggctagtc cacggggctc atacttcagc 180
gctgcagcgc ttgggtactcg gacctcgggt cgaggcattt tctctacccc ttcttaccct 240
gaaaaagcag ggtcaccttg tgtccttaaa cctataacca tctttcgggt aacctagcct 300
nctncgtccc tccgtaccaa caaggggtag tacaagaata ttga 344

<210> 34872
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-045-Q1-K1-D3

<400> 34872

cgggggaccc acgcgtccgc ggacgcgtgg gttttatttc aacttctgct gttatgtctt 60
tctataatct tttaaaggga ggctcacttg ctctatatte ttcaaagctg ctagccatgt 120
gcatcatctt tattgggtct tgacaccctt aagctgctca ttttgtagtg tgaacatggg 180
gccacttgga aagcatgata aactaattag cattgatgac ccaaataattt ttctttggaa 240
cgtagacatg tcaaagaaat caactaaggt gatctcacag ggatcagatg acatgctttc 300
aaatatgagt ggtggggctt gggatccaca caatcataat ttaaattgcg ttaatatggc 360
gatgcaatca ct 372

<210> 34873

<211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-E1

 <400> 34873

 agaacacgga gcttgaagcg caaatacagg cgatgcgtgc agctaaagag gcgctgaagc 60
 tacagctaac agaagctgag gcaagcgtca aagctgctga gaagaaaggc tcagacctcg 120
 agcaacagct cagtgaagatt gagaagaaat tagttgcatc aagtgaagaa atagagttgc 180
 tgaaagagcg tattcaacaa gaagctgctg tatcagcaga aagaggaatg caccttgtag 240
 aaacaatgac cagtgcagac cgatacaaaa aga 273

<210> 34874
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-045-Q1-K1-E4

 <400> 34874

 cggacgcgtg ggaaaaaaaa aaccagtaat agnaacatga actaaatgta ctgttgcgat 60
 gcccggatcc agagag 76

<210> 34875
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-F9

 <400> 34875

 gggggagcga cgcgttcgaa aaaaaataaa aaataatata aaaaaatttt atttttataa 60
 aaaaaaaaaa atataatggg gcggggggtt tataagtacc aagctttctt accctttctt 120
 gcaacattat acttttttta tagttgaacc taaattcatt tcaactggccg acgttttaca 180
 acttttgtac tggtaaaacc cttgcgtaac ccaacttaat tgccttgaat aacattcccc 240
 tttctcc 247

<210> 34876
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-045-Q1-K1-H6

 <400> 34876

 ccacgcgtgc gtcaaaagtc cattcatact tgcgacttga ctggttattt aggtgataac 60
 gatttgggga ccattgtgcc ctggtgaact catgtattac cttgtgaagt ccgttgtgtc 120
 tggtttctac ctgaccgttt cgttatctga tgctgtttct ttaataaaca agagaaaaac 180
 accacctaaa accatacaaa ca 202

<210> 34877
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-F6

 <400> 34877

 ggcgcgttgag gccgagctcc acgagcccac cggcaggagc gggttcgctta tcgtctccgc 60
 ctgcggttgc ggcttcgtcc ccgccgagtt cggttcctg tttcactcca ggcagtggga 120
 agtggaacc acccttcgcg ccggccaccg tggaggcgta cgtgagcctg caggtggtgt 180
 ttggtttgat gaatcatatt cctcaaattt ggtagatgag cccattcata ttagaaattt 240
 ggtggatgag cctattcata ttagtactaa ctaactatga gaaatgaggt gttgatggat 300
 caacttatta cattccacaa accaaatgaa aaaaagtgag gagtgagaac tagctcgttc 360
 atcaaagaac accctataaa agaattgtca ttgacatcag cacctacgaa tcagccacgc 420
 tcgaagtag 429

<210> 34878
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-046-Q1-K1-G12

 <400> 34878

 cccacgcatt cgtcgaacca tctagtaact gtttccttcc gaagtctccc tgaagatac 60

atggggcagc taaaaattat aatcgggtaa agtcaatgat tagaggcatc tggagcgcaa 120
cgccctcgac ctattctcaa actttaacta cgtatgacgg ctcggtgct tcggagagcc 180
gtgccacgga atatggagct tcaagtagtc ca 212

<210> 34879

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-046-Q1-K1-G6

<400> 34879

tgggttcta cgagaggata tagagaggaa gaacagctcg tccgagacca tgaagagcag 60
ccgacacctg gtgctgatcc tgtgcctcca ggccgttctg gtcattggcg tattcgccga 120
tttggtataa gaaaatgccc tggctgagag caaggccatc gacatcaacc cgtttcagct 180
catgtgctgc accaactgaa gcttgtactt atcggggctc tacacctgcg accacgctga 240
atgggacatg gg 252

<210> 34880

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-047-Q1-K1-A1

<400> 34880

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ctaaaggcac aagccgacat atggcggctc agcctctcct acctcacgcc cctgtcactg 120
aggtgcgccg tggagcttgg catccccacg gcgatctacc gccatggcgg ggctgcctca 180
gccgctgagc tggtcacggc gctgtctctc cctccacta agctgccgtt cctccgccgn 240
ctgctgcggc tctcgccgc gtcgggcgtg ttcaccgtcg acaagcagag cacggaagag 300
gagcggatcc gcatcagccc cgtgtctctc ctctgggtgg acggcatccc tcacgaagac 360
cacatgaacc acaccgctct ggtgtctcacc tgcacctcga cgcgctacat cgaggcgggg 420
atagggt 428

<210> 34881
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-A12

 <400> 34881

 cggacgcgtg ggcggacgcg tgggacgcg cgtgggttct tttgggggtcc agcaccatat 60
 acacatatat ttgtagcccc cctaactgtt ttgtcttggg tcatagttat agagatatat 120
 taacggtgca ttacatggct gtaaaaaaca aaaataaaca aaaaaaaaaa aagaaaaaaa 180
 aaaataaata aaaaaaagaa aaaaaatagg aataaattac aatatagaaa aagtagcg 238

<210> 34882
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-047-Q1-K1-D3

 <400> 34882

 cagcagtcac cactcccaag ccagtaccga gtcctacgag cagtcgcacg caagtgtcaa 60
 gagacgaaac ggtcgacatg gtcgcgacgc aatctgccgt agcgggtcgcc gtgggtggccg 120
 cgggtgctgct gctggcagcg gcggcgacga cctcggaggc cgccatcacc tgccgggcagg 180
 tgagctccgn catcgcgccc tgctctctct acgcccgcgg cacgggggtcc ggcccccttcg 240
 cgtcctgctg tagcggcgtc agggaaacctc aagagcg 277

<210> 34883
 <211> 51
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-F5

 <400> 34883

 tgctgagatt acagcaacag tggcctacgg cagtttacta ctgttttgtg c 51

<210> 34884
 <211> 267

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-047-Q1-K1-G2

 <400> 34884

 attatgtgca ttattatattt ttctttttttt tttcttttttt tcttttttttt ttttttttttt 60
 ttctttttttt tttgggggcaa aacccattttt ccctttttttt tttggcccta aaccttctttt 120
 tcataacctca ggccattcgg atcctttcca atttcccccc gtctttttttc cctcctttta 180
 aacagtgtccc cccttcccca ctttcgtttt catcaccctt aaatgggttaa aaaaaccag 240
 gccctttttt ttaaccaatc ccccggtt 267

<210> 34885
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-B1

 <400> 34885

 cccacgcgtt cgctgaatgg acattttact actctgcgtt cgctctctct ctactgatat 60
 agtatatatg tgggtgtgtct atatatgtgt gcacgtgggtt ttcgctcagc tttttatcaa 120
 cgctttgtga ataaaagctg tctcttcacg tgtaaaaaaa aaaaagaaat aaaataaata 180
 taaaataaaa aaataatata ttatagaaaa aaaataaata aaaaaataaa aaatataaaa 240
 ataaatatta tattgtttta aaaacaat 268

<210> 34886
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-048-Q1-K1-C1

 <400> 34886

 gtgtgtgtgt ctctgcatgg acattttcct actctgcgtt tttctctctct ctactgatat 60
 agtatatatg tgggtgtgtct atatatgtgt gcacgtgggtt ttcgctcggc tttttatcaa 120
 cgctttgaga ataaaagctt tctcttcacg tgtaaaaaat aaaaaataaa aaaaaaaaaa 180
 aaatgaaata aaaaaaaaaa aagtaataaa taataataaa taaaaaaaaa ttagtaatat 240

gttaaaaatg ttatttgta aagtaata 268

<210> 34887
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-C9

<400> 34887

cccacgcgtc cgaaaaaaaa ctacaaaaaa ataaaaaaaa aaagacaaaa aaggataaag 60

gaaac 65

<210> 34888
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-D5

<400> 34888

ctctaattga ggaccacctt acgcaagagc ccatcaatga gtacgtccag agttgcgaca 60

tgctggcttt caacaagatc tagagtccag tttctgagat tgggcaacgg cagcgggtca 120

tctcgtcaag tttgtgctgg gatgccagtt tatcccttct agtctattac agaaatgttg 180

ttcggagctg agtctattat aaacatcttg gtctgagttt attgttgagt ggtgccagtt 240

tttttcaata tacatttata ttaaaaacaa accaa 275

<210> 34889
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-048-Q1-K1-F2

<400> 34889

cccacgcgtc cgagagagtt gactgaaagt gtttctgcgg tgcgacaata cgcatttctt 60

gagacttgga acttcatgtc gcatacttta aatttcatgt ttcggactta aaaaacaaaa 120

attaagacaa attatacttg cttaactata aaatactcag attacataac ctataaaatt 180

ataattaaag gccggcccct cttaggttc caattttaca tcccctagct tgcgacgcca 240

tatctctttt gtagggtcac ctaacttaaa tt

272

<210> 34890

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-A1

<400> 34890

atgctgaatg ccaagatgag attatgcgaa atcattacat ttcggtcacc tgcaagatgt 60
catattctga aatgaaatac ggctacagac tctgccccaa cacataacga taggccagat 120
gtacaattaa caggcttccg gtcctccaca gaatgaaatt tacagtgtgtg tcgccgcccc 180
ccacccggcc cccgctcgtc agcgaactgc gatccttttc gccttggacg atttgtgtct 240
gatgaagaga gccgccagca tgcttttagt gccaacaggg gccttttgga tcgcacgacc 300
tttgggggttg tcgaaggaat ggaatgttga aagttccttt acaccagata tgttcttagc 360
gc 362

<210> 34891

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F1

<400> 34891

gctcgacgag caagacgaga gcggcccgga tggacgccgg aggcggtgaa gtgagatggc 60
tgagaaagaa gtcttaggat tttttagaac gactgtcaag tctagccatc cattcattcc 120
cctgtcgaat caatccgggg gctaagattt acgtaattct ttttttcttc ttctttgctc 180
ttctccccac cccactatt ttaaataatc ctccagtgtg aatacatgta ctactgcggt 240
ttggccacgc cagccagcat tgttgcaact tggaagtgaagg gaaaaaaca ttcgtttttt 300
tacttctgct aaaaaaaaaa aaaattataa aaaattaaat ataataatta ttattaaaa 359

<210> 34892

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-049-Q1-K1-F11

<400> 34892

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

ggaaagggaa aaaaaaaaaa aaaaaaaaaa aaaa 94

<210> 34893

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-E5

<400> 34893

tatggaatga aatgagttga tcaagctggc ttcgacaagt ggcaacctcg tgctatacaa 60

gtaatcatgt tttttgtcag tgagttcgtt tcttttgtca cctacgggtgc atctggctat 120

aagaagataa gatttggaag taggtggatt gctctgggtg ttgagaagtt tgttgaaccc 180

gatgtttcct tggttccaac actgtcatgc tccatcgatt attttggaga gttgatcagt 240

gggcagaaac cgtggaagaa aagctgacat ttgcactcac ccgagcccta tcagcagcgc 300

cggccctggc aggggtcgag cagtgccctt aaccaggccc ccagattaat ggagccctcc 360

tttagaattt ggcacttggg 380

<210> 34894

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-050-Q1-K1-G5

<400> 34894

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ccagggcacg gcgatagagg cacctaaaag caaaacacag gcagacgncg aacaacgacg 120

agacagggaa aacc 134

<210> 34895

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H3

<400> 34895

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aggagggagg gaacaacgtc tcagctggat ctatTTTTTT ttatgagaat aatccaaata 120

gacattggct aaccgaaccc aacacgagaa ccaatccaca ggagggttaa aaaaaccggc 180

ggttgttctt tgaaaagaag tccgtccatt agaagaatga ccaggccatc gccgagacca 240

acggcaaggc caagcccgcg gttaacccaa gc 272

<210> 34896

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-050-Q1-K1-H8

<400> 34896

gacagacata gcactactat agtgtgacct aaattcaatt cagtgagagt aaacttacia 60

agtacg 66

<210> 34897

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-B12

<400> 34897

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggaiaaa 60

aaagaaaaa 69

<210> 34898

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-C1

<400> 34898

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaggaaaaag aa 72

<210> 34899
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E1

<400> 34899

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgctccgcc cacgcgtccg 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg acaaagata taaaagataa 120
aaaaattaca tacacatgaa tgaaaagtaa taaataatgg tatagtggta ctataaatc 180
aattcat 187

<210> 34900
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E11

<400> 34900

aaaaagaact cacggaataa ttgttcgtct tgtatcatatc ttaatcgtag gaataaataa 60
cctcatttac aactcagttt cgcaaatttg cgctaagaaa attaagcctg cgtgcgccgt 120
gagattcatg cggagtgcag agcaaaaacc acgctactag taccattacc agccggccgt 180
gagccgcagt tcctgcagcc gtgccggcgt cggccaactc caagaacaga tctacggtaa 240
actctagtac taatcttttt tgtacgtacg tatagtgggc acaaattgtg tccgtatgta 300
cgccgtatct atagatactt cagcaggaag aaagaatcgg tgcgtgtcg tgcgtgtc 359

<210> 34901
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-E8

<400> 34901

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 ttgaaacggg tgcctgtca atcgggtgaat ggaataagcc aagtctgttc tgggttgttt 120
 gcttggtcag tgatgtgtct tctatgacga aagttgagtg cctatgtgtg agcatgcttg 180
 cttgtaacga gacattgaat tgttcggaaa tgagcattcc tgtgctcttc ttgaaaataa 240
 aaaacataaa taaatattat aattatttta atttatttta tttattctat catattttat 300
 atttatactt aattttttat atatataatt aatctctttt a 341

<210> 34902

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H10

<400> 34902

aaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaagaaaaa aaaaaaaaaa agagaaaaaa 60

atgaaaaaaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34903

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-051-Q1-K1-H4

<400> 34903

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ctaattgggtc taaaaattca agtgagaaca attcattgtg tgacctatat tccaagcttg 120

ctaattgatgc aaggctatat ggtgcatgtg acaatgatca aagccacttg ccgtcaactt 180

cttaagtttt accgtttgca tactccaatt catattattt tctaaccttc aagtttacct 240

gacttgctta ttggcaccct tt 262

<210> 34904

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A10

<400> 34904

ggataaaaaa cactcccaca ctcgctgggc ccctagacaa cgccaacatc tacactaacc 60

ttactgacac cagctccacc gggaatgcac acccaccctc aacccccaac acctggacta 120

caggcccacc gacgtcgccc actatgagga ccacacgtta caccgaaact cgcacgccag 180

cactcagcac cttctcctgc gacacgccc gccccaccac gagccgaccg gctacaacta 240

ctcatcgaac gaagac 256

<210> 34905

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-A7

<400> 34905

aaaaaaaaaa aaataaagta aaaaaaaaaa ttaaaaaaaaa aaaaaaaaga ggaaaaaaaaa 60

agagaataaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 34906

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B7

<400> 34906

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caaatatcta aaaaagctca aaaaccgcta ttaataaac ctgcttatta ttatgtaatt 120

ggtcaagtaa atgctgacca agccaaagat ccttaccttt acttttccca tgatc 175

<210> 34907

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-B9

<400> 34907

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gcgtctacac catgggccta gatgtatata caaaattaca tcaactacat acataacaca 120
gtctacacca ccaagaacga gtcacctgac atgctcacca cgcacactac tcacccagtt 180
agcttctaac cacacgacaa gtactatcgc cagcgggtacc tgttgaagaa cacatttgta 240
cttatgccaa cacagaatcc agcactgaac tactgaagct tcaactttcc aaccatggat 300
gtgcaaattg tgtaactgat tgatgcttgg ttgctgcaat gtacaaatag tatcttatga 360
aaccatttaa aactgctac gcactactat gacatctcag cgcatttaag cactata 417

<210> 34908

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-052-Q1-K1-E9

<400> 34908

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ggcacgcttc cgccgacgcg tctcccacg cgtacgcca cactcgtcct 108

<210> 34909

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-B4

<400> 34909

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ggggcgacc ttctgcattt caccctctga actctgaccc tgctccgcga agttgtttcc 120

ttttcttcta ttatgacaaa tgcagtcgct tgatcaagca tctagacggc cgtttctctc 180

ccgttcacgg aagtacagac cactgtcctt gccggacttt gtttcgggtca agctgagtgt 240

gcacacgcgt atccatgcct tactcaactg ctgacctgta acatctaaat ggtctgctct 300

gcgtcacgtg gtactcatca gcaaacactt gacagccttt tcaccgatca ccaacgcctc 360

gttgcttgc cactgggtga gcattgaccc gcagctatct gccttgacg cagcacacc 420

gtat 424

<210> 34910

<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C10

<400> 34910

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<210> 34911
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-C5

<400> 34911

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taccgggtgt actggaacgc ctaccaccac tcggtcggct acgccatcat cgtgctgggc 180
gtcgtcaaca ttttcaagg catggccatc ctgcacgtgg agcagagggtg gaagacgggc 240
tacatcgccg ccatctccgt cctcgggcgc gtcgccgtgg ccctggaggc cgtcacgtgg 300
ggcgtcgttc tgaggcggag gaaggaggaa agcaagagct acaacggcac ctc 353

<210> 34912
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D10

<400> 34912

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ctgaataagt tttatcacct taaaaactgt gaaaacccat ttgttcccca acgttatagt 180
cttcctaaca tctaatttta ttcaaaaac gtaatataga ataaatctca acagattgtt 240
ctttccaaca ttattccatc atgaatggtc aattggatgc gctttgtatc gatacattac 300
acgcacagtg tgaatttatt acatccattc atactcgtaa attattaaat gacctagcat 360

ctggttatct taatagattc a

381

<210> 34913

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-D2

<400> 34913

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agagagaaaa aaaaaaaaaa acaaataaaa aaaaac 96

<210> 34914

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-G9

<400> 34914

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atccacagga gggtaaaaaa aaccgccgct gtcctttga gaggaggctg gtccatcata 120

agagtgcga ggctatcgcg gagaccactg cgagcgctac gccgtcgctg accccagtcc 180

ggaacttgac accgctgccc gcggcgctgt cgctcgacagg gttgccgtca gctgacggcg 240

tgatcttaga ggcgttggca aacagggcgt actccgcaa gcctggcttc aggttcagca 300

aggagatgca ctgcgagacg tttgagttgg tgaggttgca agcagcggac atcgccatga 360

gtcgatccaa gcgcacgccc agcgactgta 390

<210> 34915

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-053-Q1-K1-H11

<400> 34915

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ggttgtcacc gtcagagttg acttgcatc tttgctcctg atcctgtcgg ttaccgtgga 120

tcacatttcc tgttgaatta cacaaaagcc tactggtttc taatagattg ctgccaccta 180
 caatattatg acgctgctga actttaaaag caaccaaattg cggccgaaga 230

<210> 34916
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-A6

<400> 34916

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 aagagtctaa ttttactccg cccccctccc cctcctttct ttctttttta ttaaaccaaa 120
 attcaattca cttgcctctt ttttccaaac ttttgggctt gcaaacctct ttcataaacc 180
 aaatttatcc ccttttaaaa aaattcccct ttttttttgt tgtcccaaaa aaaaaaaaaac 240
 cccccccctt tttcaaacc caaaaattttc caaaa 275

<210> 34917
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B10

<400> 34917

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 aggaggtgcg acagaggaac gaaacctccg cgacgaagcc gcggagtcag actgacctac 120
 cggccacttg cggctaaggg cttaaggacc tgctccggga tgcgccggct ctcggatgca 180
 tacctggctc tgggttccgt catcttacga cacgctggat gggcgggaga ttacacggac 240
 cccaggggca acgccaatct ggcgtaacga aggtcgagtc ggcgttcgct gtactaactg 300
 gtattctagg tc 312

<210> 34918
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B11

<400> 34918
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 aagagaaaaa aaaaaaaaaa aa 82

<210> 34919
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-B9

<400> 34919
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 gggttttgtc aagaccggca agagcaatgc gtacttcaag cgtttccagg tgaagttcaa 120
 gagaaggcgc gctggcaaga cagactacag ggccaggata aggctgatta accaagacaa 180
 aaacaagttc aatacaccca aatacagatt tgttgtgcga tttaccaaca aggacatcac 240
 agcaciaaatc atctctgcta gtatagcagg tgatatgggtt cttgcttctg cttactcgca 300
 tgagttgccca cgatatgggtc 320

<210> 34920
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-054-Q1-K1-F12

<400> 34920
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 ggcgctgtgc ggcgtcgtcc ccggcgtaat cggctacggc gtgatgcagc tcaccggctc 180
 ccgcaacgag cagctcgagg cccaccttcg ctccacggcc cgtcccgaga ccacgatgat 240
 ggggcaagtg aacagggaga ggctggcgga gtttctcggc gagctgcaac ggaaagagga 300
 cacgaacgac aggtacgtgg ccgcgctgag gggggagacc ctgaccagga agcgctacga 360
 gcgcattcag cccgtgcctg ccgtcaacgc gcaagcgag 399

<210> 34921

<211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-B2

 <400> 34921

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 gtatcattct ttgcgctccc agcagttttg tttcctttca tttctctac aaaattttct 120
 accaatttaa ttgatacttt atgtcacagt gtatatgttt atgtgtcatt tgtttttctt 180
 tagaatggct tttatgagat gtttttcttg catagaagtt ctattattta agtcatgatt 240
 atgcaagtac atagtagacg tttttactat 270

<210> 34922
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-C11

 <400> 34922

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 aaagaaaaat ttaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaataat 120
 aaaaaataa ataaaaaaaa aaaaaagggc gtccttttta aagaatccaa atttacttac 180
 ccttgctttc aaaatcataa cttttttata atgcccccta aattcaatta actggccctc 240
 ttttaaaaac atcctaattt gaaaaaccct tgctttccca aattaaaccc ctttgaaaaa 300
 aatccccctt ttccaaattg cctaattacc aaaaagcccc cacccaatac cctttc 356

<210> 34923
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-E6

 <400> 34923

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 ggcatatcatg cgacggcata ggctattttta tagtgacacc taaattcaat tt 112

<210> 34924
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-F11

 <400> 34924

 aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaagttt 57

<210> 34925
 <211> 67
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-F12

 <400> 34925

 aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa 60

 aaaagaa 67

<210> 34926
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-055-Q1-K1-H7

 <400> 34926

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 gtgtgcaaac acaagaacga gctaaaccat actcttgacc tgatgatata ttcccttcag 120

 gtcagatagc ctaggagccg actgacatgc cagcgtact act 163

<210> 34927
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-A1

 <400> 34927

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agttgttcat ggtgtcagac atgttgcanc gtcagtgtta agtcaggaag tgcctgagta 120
 tgcacctgtt cagttattat gttttgatat ggttttctcaa tttcttagga taactctgta 180
 gtctgaaaaa acaggatccg acttcttact 210

<210> 34928
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-B12
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 tatagtatat atgtgggggtg tctatatatg tgtgcacgtg gttttcgctc ggctttttat 120
 caacgctttg agaataaaag ctttctcttc atctgtatat tttattttta atgaaagaaa 180
 taaaccacta tatatttcga caaaaaaaaaa aaaaaaaaaag ggaggaccat ctaaaagaac 240
 caaacttaca aactcgtgca atgcgactaa atacgttctc tatagcggca cccaaaattc 300
 aattccatgg cgggtt 316

<210> 34929
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-056-Q1-K1-C5
 <400> 34929

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 tataatacaa acttacgtac acctacatnc aacatcttac ctcttctata ctctcaccta 120
 aattcaatt 129

<210> 34930
 <211> 161
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-056-Q1-K1-F2

<400> 34930

tatcttatct atctatagta tcgtgttacc gttcgcttct ttcaccgtgt tagtgtccgt 60
tctacctttt gattagggtt ttgtaccctt gttgttccct ttggttgctc ccgctatgaa 120
acgagactag agaagaatga gcaatgtttt tgttcgcagc t 161

<210> 34931

<211> 244

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-056-Q1-K1-F7

<400> 34931

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gcccatactg ggttcggccg acttatctta tctatctata gtatcgtgtt accgttcgct 120
tctgtcaccg tgtagtgctc cgttctacct ttggattagg tgtaggtacc cctgttggtc 180
cctttggttg ctcccgtat gaaacgagac tagagaagaa tgagcaaggt ttttggtcgc 240
agct 244

<210> 34932

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-B2

<400> 34932

gcgctctgat cattaagggt atgtgcattc gattgctcgc tggcattgcc aggattgtgg 60
gtgctggggg atgttcatga tgtagtaagc ttaatgaacg gctggtaatg gtatatgtag 120
taccaccacc ctctgtaatc tcagctgctg tggcaacttt gactcttttc ggaataactca 180
cttgtagtgc gtagaacag 199

<210> 34933

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C5

<400> 34933

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caaacaaaaa aaaaaaaaaa aaaagaaaaa atacaaaaaa cagaaaaaca aaacaaaaca 120
aaaaaaaaaa ctccacccaa tcatactcac cccctctaac atccactctc attcaccat 180
acatccacct ctcacattcc ccccaatttc cccccaaaac 220

<210> 34934

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-C6

<400> 34934

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ttccctgaaa tgggtttgcg accactgaat ttgcatgtgt aacctttcca agaaaccagt 120
agcagtttgt aaaaaaaaaa aaacaaagac acataaat 158

<210> 34935

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-E7

<400> 34935

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tttctcgt 68

<210> 34936

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-G8

<400> 34936

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gacttaccta aattcaatta 140

<210> 34937
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-H3

<400> 34937

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gagaaagg 68

<210> 34938
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-D8

<400> 34938

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tagactaaac gggggacatg ggtcgcacgc aatctgtcgt agcggtcgtc gtgggtggccg 120
cgggtgctgct gctggcagcg gcggcgacga ccttgtatgc cgccatcacc tgcgggcagg 180
tgagctccgc catcgtccc tgctctctct acgcccgcgg cacgggtgtcc ggcccctccg 240
cgttctgctg tagcggcggt aggaacctca agagcgccgt cagcacccgc tccgacaggc 300
gctccgcctg caactgcctc aagaactccg tcaggggcgt cagttgcctc tacttcggta 360
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cctac 425

<210> 34939
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-058-Q1-K1-G6

<400> 34939

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 ggaaaaataa taaggatata aaaattaaaa acacatacat acaaaaaaat ggcgtcttct 120
 ttataggttc ctagtttctt ttcacttget ttcgatttac tacttttttt ttagtgtaac 180
 ttatatattat ttcattggt 199

<210> 34940
 <211> 213
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-058-Q1-K1-H4
 <400> 34940

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 ggagcccatg gtgaatgctg cgttcgagaa gttcggcggc atgatgaagg agatcgaggg 180
 gttcatcgac gagtgcacat acaacctgta cct 213

<210> 34941
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-059-Q1-K1-A7
 <400> 34941

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 cgaaggctct gtctgcaccc aaagcacaga attttaacaa ctaaagcctt acgagacgac 180
 caacatcatt aaggacttca acgagcctcc gtttctggac ccgatcagtc tcttacttgg 240
 cccaccaag ttcattgtca tacaaggcga gcccggcgct gtcacccatg ggaagaaggg 300
 atctggaggc ataactgtga a 321

<210> 34942
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B12

<400> 34942

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gctgttctgt gtgccaccgg acagtgttcg gtgcaccatg cccgtgcaaa tccgaagcag 120
ccactctagg gaattcaacg acgccctccg ctataattca ccggactgtc cgggtgtgcca 180
gcggatcatc ggctaactcg tgccaacggg cgactctgac ggctgaacag tgttacgaca 240
gaagtcatag cagaaagtca cagggcaccg gact 274

<210> 34943

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-B9

<400> 34943

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ggccccact gccgccccgt ccaactggcg cgtaacaccg ccacgcccac gttcggcgtc 180
ttcctcatct gcacccccat cgctatgaag tccgcagagc tcgagcaacg cccgcacac 240
ccagtcggcg caatcccac tcaactgtgg tgcaaaaact ttggtaagaa ggaatactga 300
aggaccctgc aactagcatg aagtgtgggc accttgcttt tgctttctat atgtggaaac 360
ctgtgcctag ccataatgct gggttaagtg ttaggagcat ctctggaatg cttcgcgtag 420
tatctcttga tacttctttc cttc 444

<210> 34944

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-C1

<400> 34944

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gatctggccc gggctctatt gcagaagcgc ggtcacttgt ctcagcccgg ggtctgctgc 120

gtctggtggt ggtgaatggg agaacctcgt gacgatctgt tccggatcaa gcgtagcgagc 180
 tcgggaatca ggggtttcac acatagctgt tgcgatctga attcgatgta ctaatggagt 240
 ctaatgccgg ctaaaagtct agccttactt actctatgat gtctgaagct ccccttggt 300
 acagcattga cgacgttcga tctgtc 326

<210> 34945
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-059-Q1-K1-C2
 <400> 34945

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 tgattatgac attgggacca ccataagga taagattatc cctcatgcag tttcctggtt 180
 tactggtgag gctgtgcaag gtgaggattt tgggtgagttg ggcgatgatg atgaagatga 240
 tgatgatgaa gacgatgacg aagatgatga ggatgaagaa gaggatgatg atgatgaaga 300
 ggatgatgag gaagaaagca agccagcaag gaagtcaaga tctggtcga gacataaggc 360
 gccacagaaa gtgtcccatg gaaatgcgga acaaccagcg gagtgcgaagc agcaataaaa 420
 tggcccgttg atgttggttg atgcaatatt t 451

<210> 34946
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-059-Q1-K1-C8
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 aggtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 120
 agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg tttacaacac 180
 ctgatgttgt aagagttgct aattcccctg cattgctacc gggttattga gaataattat 240
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<210> 34947
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-D7

 <400> 34947

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 gaagagtaaa ataaaaa 77

<210> 34948
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-E6

 <400> 34948

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacgg gagatataga gggataaaga 120

 gtaattagac ttaaATgcga ctaaatatat attcgatagc gtgagataaa ttaaatttag 180

 gggctagtag ttttaaaaat aacgagactg tgaaaac 217

<210> 34949
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-F3

 <400> 34949

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 acggtgacgg aggtcgtgtc cacgggcgag aacgagtacg acgagtacaa gaaggaggag 120

 aagcagcaca tgcacaagca gcacctcggc gaggccggcg ccatcgccgt cggcgccttc 180

 gcactctacg agaagcacga ggcgaagaag gacccggagc acgcgcaccg tcacaagatc 240

 gaggaggagg tcgcggcggc ggctgtcgtc ggctccggcg gcttcgcctt ccacgagcac 300

 cactagaaga agaaggacca catggaggcc gatgaggccg gctgcgagaa gaagcaccac 360

ttcttcgggt agctgattga tcctaccata tcgatcgctg tacctaccct gttgctacgc 420
gtgcgtgtga gaggatata gagcg 445

<210> 34950

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F9

<400> 34950

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acagaggggt tttataaaaa aatgcggggt tacaaaaacg ttcattgctac ttcatatccc 120

tatcataggt tcacctaaat acaatt 146

<210> 34951

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-059-Q1-K1-H10

<400> 34951

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gcggccnatt tccaaggccg ccgggcctgg caccgcagct acctcctcta cggctcggcg 120

ggcacaggca agtcacggtt cgcggcggcc atggccaggt tcctaggcta cgacgttgac 180

ctgtctcgca ccgatgccgt cgtcgacgac ctccgcgcgc tgctcctgca caccaccccg 240

cgctcgcctg tccttgctga ggacct 266

<210> 34952

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-A5

<400> 34952

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catttcacaa tatggcaaga gctcttgctt acggtggagc agctgccgca gctggcttcg 120

tctcgccgtg gcttgccgtg ctcggtgcgg ccattgctctc cgtctggggc atcacgctcg 180
ccatcctcct ctgtggcgac agctcagaca acccgagacc aagatacaat cctgccgtta 240
gtgctggctat agcagctggt ggcggaaggg gctgtggtgg cggaggcggg ggtggtggag 300
ggggctgtgg tggcggatgc cgttgtggag ggggct 336

<210> 34953
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E5

<400> 34953

aagaaaaaaaa aaaaaaaaaa aattatataa aaaaaaaaaa aaaaaaaaaa aaaggaggaa 60
aaaattaaaa a 71

<210> 34954
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H2

<400> 34954

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tgactatata taaggcatca tatggagttt agagggtgc 98

<210> 34955
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H9

<400> 34955

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atcgtgagga tgctggaaca ggtggagatg gaggttctga ccaccgtccg aaaggctcgg 120
ttccgctgct gcatcgcca accgatgacg ctggactgag tcatccacaa aatccaggaa 180
aataacctgg agtgccgttt actcctatgt atttataata tatattatta gagttgtgct 240

tcagaagcag ggagctgact cctcagtctg ccttctgtct ttgacatgtc accgtagagt 300
acaccagagt ggttgtaata gaggtagctt ttttttaaatt gcttgaccaa ataccccttct 360
ccgtgtaaaa gtgcctgttc ttgcaaaaaa aaaaaaatTTT aaaa 404

<210> 34956

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B2

<400> 34956

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tgaggatata gccgaccga gcgacaagat gctggcggtg ctggacacca acatcctctg 120
ggtgaacccc gactgcggcc tcaagacccg caagtacacg gaggtcaagc ccgccctgac 180
caacatggtc tccgccgcta agctcatccg caccagctc gccagcgcca agtgagcacc 240
ttttttttgc ctttttcgtt tccgaggagg gcgtcgtcga tgccaatttg tttccaataa 300
acagggctgt gcccgccgtt ctgttgtaact ccgtctgttg ttaggttagt agttatcttg 360
atctcgccct cagcggttac ctgttttact actctctgat tgggtggtttc tgaggcaagt 420
tgcccgtgta cttgtatcgt aaaaa 445

<210> 34957

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C4

<400> 34957

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ttgaatgaag aagaatggca cttcttagag gtcgattttg atgaagattg atcattgaag 120
gtaactgtaa gagttgactg ccatggtttg tgacaggggt gccatggttt gctgcaccgc 180
cggcctacta gttgggggtt catttgcat ggcagcatag acagacgggc ggccattttt 240
cttccatttt ggagtaatag tccaagcctg aactgtgaca ttcgtgcatg cttatacgtg 300
aaagtgtacc tgagagcaga ttatacgtga aagtgcacga gcgttgcata tgcaaaaaaa 360

aaaattgtta tatatattat aaataatat

389

<210> 34958

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D11

<400> 34958

aaaacccggc cgcacccact cgtccgcccgc cgcgtccggc taatcgcacg tttgatacgc 60

gcataggggc gaaagactaa tgtaggggttc tatcagctga tggcgggcga agtttacctc 120

aagatagctg gagccacac aagttctatc gggtaaagcc aatcattata ggcacgcagc 180

gcgcacgcgc ctcaacctat tctcaaacct caaataggtc ggacggctcg tctagcttgg 240

tgagccctac cacggaatcg agatgctact agtacgcat tttt 284

<210> 34959

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D6

<400> 34959

cccacgcac ctttgactcg tggcattatt taacacacac aacacacac aaaaaaggag 60

aaaatattaa 70

<210> 34960

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E7

<400> 34960

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tggtggagac cccgccggcg gccgtcgtgc ccgaggagtc tgcccccgcc gaggccgagg 180

ccgaggccga ggctgctgct cctgctgac ccgaggagct tcccgcggcc gagcagcagg 240

cagccgccga ggcggaggcc gcggtcctg ctggtgccga ggagcccgtc gcggccgaac 300
 cggccgccta tgctgaggct gctgctcctg ctggteccga tgagactcct gcggtcgagc 360
 aggaggcagc cgtcgaggag gaggtgctg ctgctcctcc tgctggtgcc taggagc 417

<210> 34961
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3068-061-Q1-K1-G12
 <400> 34961

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 nccnctacgg ctgcgcgggc acaggcaagn ccacgnncgc ggcggccatg gccagncccc 120
 taggctacga cgttgacctg tctcgaccg atgcgcgcgc cgacgacctc cgcgcgctgc 180
 tcctgcacac cccccgcgc tcgctcgccc ttgtcgagga cct 223

<210> 34962
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3068-061-Q1-K1-G4
 <400> 34962

cccacgcata cgcaagatcc tccaaccttt tattcccgaa caaagctaca accagaaagg 60
 aggggtttta aaacagccgg cgcggcaaaa gaacgccagc gaacaaaccc aacaaggatc 120
 accagatcaa ccaccttaac agcaccacc tactcaccat tccagacttc tacaccagtg 180
 cctacgcaaa gacctacatc cataacgatc attctaaaga ctatactcac caaagcaaca 240
 tgctaccact aaacggccaa gctcaccag acaactatcg gacatccgag acggaaccaa 300
 tgctcgctca aaccatttcg gaatcatgaa tatacatgat ttttacagac attaa 355

<210> 34963
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H6

<400> 34963

aaaaaaaaaa aaataattaa aaaaatttat aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

gga 63

<210> 34964

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B12

<400> 34964

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caagatcaaa aaaaaaaaaa ggcagccaaa caacaaaaaa aaaaaaaca aaaaaaaca 120

aaaaaaaaat taaactagac cgccatttaa aaacaccatc tactgcaaaa accctctcaa 180

<210> 34965

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H10

<400> 34965

cccacgcgtc cgccctacgc gtccgaataa aataaaaaaa aaaaaaaaaa aaaaaaaaga 60

gaagggttaa aaaaaaaaga gtgcaag 87

<210> 34966

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C4

<400> 34966

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gttccaaccc aggggcagtg atggcgacga agaggagcgt gggcaccctc ggcgaggcgg 120

atctgaaggg gaagaagggtg ttcgtgcgcg ccgacctcaa cgtcccgtc gacgatgccc 180

agaagatcac cgacgacacc cgcatacgcg cctccgtccc caccatcaag ttcctcctcg 240
 agaagggcgc caaggtcatc ctgccagcc acctgggtcg tccaaaaggt gtcaccccaa 300
 agtacagctt gaagcctctt gttccacgct tgtctgagct ccttgagtt gagtcgtgat 360
 ggccaatgat tgcattggtg aagaagttga gaagttggct gccgctttgc cagaaggtgg 420
 agttctgctc ctagagaat 439

<210> 34967
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-E10
 <400> 34967

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 ggtggaggcc aaagccaaga tcttcgggca agaggtgaac attggtgcta aggacaacgg 120
 cagcccaccg gtctacaaaa tcaggccgag cttgggtcgcc gagctgtaca gctacagaat 180
 catgccgcta accaaggagg ttgaggctgc gtacttgctt aagaggctgg attgagtgtg 240
 tttacgtagc tgtaaaactg ccagatccga actcctggta ttaaaccata acatcggtaa 300
 gtaccatttt ctgtgaagag gatgatccga actcctgtca ttaaaccaga acatcagtaa 360
 gtaccagtt ttggggaaag gatggaaaat ataccatgtg tggcaagcaa catgcataat 420
 atcatc 426

<210> 34968
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-D11
 <400> 34968

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 aagaagctag ctgagcttac aaccacgaag ggtgtcacta ccatcatcgg cggcggcgac 120
 tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat ttcgaccggc 180
 ggcggtgcga gcttggaact cttggaaggc aagactctac ctggtgtcct tgccctcgat 240

gacgcctaga tccgctgctg ctgctgctac tcaggttctg ccagctttgc gtgtcatctt 300
 gtttcggacc ttggtgtagc actgcaaggc taaggtttac tcctccgcac atggactttt 360
 ggggataggc ttgccaccgt gttttgctag atgagtcgtg gaataagctt ttacttnctc 420
 gctgctgtgg gtgaag 436

<210> 34969
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-027-Q1-K1-E11
 <400> 34969

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 ggtggtgtgg ccaatcctct tggcataaag gtgagcgaca aaatgaaccc cagtgacttg 120
 gtgaagctga ttgagattct gaacccttca aacaaacctg gaaggatcac cataattaca 180
 aggatggggg cagagaacat gagagtgaag ttgcctcatc ttatccgtgc tgttcgcaat 240
 gctggattaa ttgtcacatg gattactgat cctatgcatg gaaacaccat caaggccccct 300
 tgtggccctg agactcgtnc atttgactca attctggctg aagtgcgcgc attcttcgat 360
 gtgcatgat 369

<210> 34970
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-001-Q1-K1-E2
 <400> 34970

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 gtaccgtgaa ttggcccata gggatggatga tgctcttggg ttcatgactg catcgggggt 120
 tacagtcgac caccgataa tgacgactac tgacttctgg acctcgcacg agtgcccttct 180
 cttaccctac gagcaggctc ttaccctgga ggattccacc agtggccttt tctatgattg 240
 ttcggcccac atgttgtggg ttggtgagcg cactcgacaa ctcatggag ctcatgttga 300

attcctccgt ggtgttgcca accctctggg cataaagggtg agcgacaaaa tgaaccccag 360
 tgagttggtg aagctgattg atattctgaa cccttcaaac aaacc 405

<210> 34971
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D6

<400> 34971

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 taagtaccgg gaattggccc atacggtgga tgatgctctt gggttcatga ctgcatcggg 120
 gcttacaggc gaacaaccgg ttatgaccac tactgacttc tggaccttgg accaatggct 180
 tttcttacct tacgagcagg ctcttaccgg tgaggattcc accagtggcc ttttctatga 240
 atggtcgggc cacaatgt 258

<210> 34972
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-A5

<400> 34972

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 cgagaagatg cagaagtacg gcgccacagg gtggctcgtc aacaccggct ggtctggcgg 120
 caggtacggt gtgggcaaga ggatccggct tccctacacc aggaagatca tcgacgccat 180
 ccaactccggc gagctttctca ccgccaacta ccagaagacc gaggtctttg gcctggagat 240
 cccgactgag atcaaggcgg tgccgctcga aatcctcgac ccaatcaaca cctggacgga 300
 caaggccgcg tacaaggaga cgctcctgag gcttgccggg ctcttcaaga agaacttcga 360
 ggtgttcgcc agctacaaga tcgngacga cagcaacctg accgacgaga tcctcgccgc 420
 aggccccaac ttctgaacta a 441

<210> 34973
 <211> 333

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-C10

 <400> 34973

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 tcatcgttgg ctcggcgtgc aaaggctttg gaagaagcat tcaacagttt agaaggaatt 120
 acatgcaaca aagccgaagg tgcaatgtat ctgttccac gccttcattt accccagaag 180
 gcaattggag ctgcccaagc agtcggcact gcgcagatg catactacgc aaaacgccta 240
 ctggaagcca ctggaatcgt cgtcgtcccc gggtctgggt ttggacaggt ccttggaaacg 300
 tggcacttca ggtgcacgat actgccgcag gag 333

<210> 34974
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-C9

 <400> 34974

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 cgtggcaaac tgaggtttaa tcatcttagc aactacggta cgtgaccctg agcgcgtgat 120
 tgttgcgaaa caacgaccac ctcggtctac accttaaagg tttgcgcgac atggcttttc 180
 atagtgetca attggatcta tcccctgagc ataggagaaa agtatcaatt tgtacagtgg 240
 atccaagtat tctataaagc atgcacctc caatttccca caagcgagaa tggcatgata 300
 tgatggatga aatggctgtt gcgggtcaatt gtctttcaag gatcaattgt ctttcaagaa 360
 ccacactttg tattggtttg tgtgcagttc aagctctac 399

<210> 34975
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-F2

 <400> 34975

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tgctgctaag ctgtatgggg ttaagctaac catgttccac ggacgaggcg gaactgtggg 120
 aagaggtggg ggccctaccc atcttgctat actgtcacag cctccagaaa ccatccatgg 180
 atcacttagg gtaaccgttc aaggcgaagt gattgagcaa tctttcggag aggagcattt 240
 gtgcttttagg acactgcagc gtttcacggc tgcgaccctt gaacatggta tgcacccttc 300
 aatttcgccg aaaccagaat ggcgtgcttt gatggatgag atggctatcg tcgccacaaa 360
 ggaataccgg tcaatcgta 379

<210> 34976
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-G3
 <400> 34976

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 aaggggcaga cctggtgccg gaggtcccca catgagtggg ttctagggaa gggataatcc 120
 gaagcaagcc ttccccctgc aaatgcagag atgaggcttt gaaccctgta cctggtgact 180
 aagtgcagca cctctcacca ctgcaacagg cctgtccttc ctcatcgnta aaactgagca 240
 tattaattct tcttcttaag caatatggga gctaattgct gcattgctgc aaaggagagg 300
 acacagncgt gcattactcc tatagaagta tcggcataca ggaatg 346

<210> 34977
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-044-Q1-K1-D6
 <400> 34977

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 taatattgat gggatacttc accttcggga gaacgaattg aaacgacatg ctggggagaa 120
 atctacggca atagaagcat attgtgccta tgttgctgaa gggttcgaaa acctgctgga 180
 ctggaatgat gttatgaagt tccaagcgaa gaatggatcc ttgtttaact ctcttctgctc 240

aactgctgcc gctttggteg ccaactatga cgacaaagcg ctacagtatc taaatttgct 300
 tgtcacacaa tttggcagtg cagtaccaac agtggtccca caaaatattc actatcagct 360
 ttcaatgggtg gacacgctcg aaagtgttgg aatatcacgg catttttctg tggagaaaaa 420
 ggctgtcctg gacatgatat a 441

<210> 34978

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A1

<400> 34978

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 cggtctcgga aggatcgga ggctcgtggc cagggtcgcc ctccagagcg aggatgtcga 120
 gctcgtcgcc gtcaacgacc cttcatcac cacggactac atgacctaca tgttcaagta 180
 cgacaccgtc cacggccact ggaagcacag cgacatcaca ctcaaggact ccaagaccct 240
 tctcttcggg gacaagccgg tcaccgtctt tggcatcagg aaccctgagg aaatcccgtg 300
 ggggtgaggct ggcgctgagt atgtcgtgga gtccaccggc gtcttcactg a 351

<210> 34979

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F9

<400> 34979

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 gatggaccat tgggtttatg acaaattgtg acaaatatca tatacacgct ctgcgcgtcg 180
 aaggtcagat catttttggt gatcttatct agcgaagtga tggcttatat gttcaggatc 240
 atgagctcgt tgagatgtat tgagaggtct ctgaatgctt aagttcagac aa 292

<210> 34980

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F9

<400> 34980

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gctgaagatt tgaacttgag aaaacataaa tatagaagtt ggttggcgta ttcaaatagc 120

aagttggcac aggtaaaatt tagtagcatg cttcataaga gaattcctgc agaagctggc 180

atcagcataa tttgtgcttc tcttgaatt gtcgacacga atgttacaag agaccttcct 240

aagattgttg tagctgcata ccattttctt ccctacttca tattcgatgg tcaagaaggt 300

tctaggagtg cactgtttgc agcatgtgac ccccaagttc cagagtactg tgagatgctc 360

aagtcggaag actggccagt ctgtgcttgc attaactacg actgtaatcc gatgaacgcg 420

tctgaagaag cgcaca 436

<210> 34981

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G9

<400> 34981

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cagcacctgg gatcccgccc caatggcaac agcgtgtccg ccgctctcgc tgccgtccac 120

ctccctcttc cgcggcaggt ccgcccgcgc cgggcccaga cgcaggcagc tcacggccgt 180

ccgctgcagc gccgtcggag aggcggtagt ggaggaggcc tcgcccggga cggcggaaga 240

gccgctgctg gtgagcgcaa tcagaggag gaaggctgag aggccaccgc tctggctcat 300

gaggcaagcc gggaggtaca tgaagagcta ccaattgctc tcgagcggt atccttcgtt 360

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<210> 34982

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E6

<400> 34982

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aggtgataaa ggatgcttat gctgtaccat cacttgccac tgcggttctg ggtgacaagt 120
tccagtttga gcggcttggg tacttcgccg tggatactga ctccacacct gagaaactcg 180
tgttcaacag aactgttacc ctccgtgatt cgttcgggaa agctggaccc aagtgactgt 240
tcagtgtaat ttagggaggg cgctggtttt gatcggttgc agaagcgac ctgaactata 300
caagttgtga agaaaatggg cgtctaatac agaacagttt aaagggcctt actctttata 360
aaatttaggg ttttttaaaa 380

<210> 34983

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E9

<400> 34983

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agtaatactt attcaaaaga gcaatgtatc ttgaacaaga acgagttcaa aatgaaaaac 120
tcgttggtga ggtaggcaa caagacgtcc aactgcataa gcaaaggcat gaggatagga 180
ttatgaccat ggatctgact gtactgccag aagaacaaaa gaaatactac ttatctttac 240
tgtctaagat catgagccaa ctacctagt tttgacatat gtgtgccatt ttcaaagcac 300
ttcaatatgt ttctcgtgtt catgtcagt tttcacatca tgttttgtcc aaacaggcgt 360
aagtggtttt atctcaaata gtttgtgtca ttgcttccat ggtatctatt gttttaatat 420
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<210> 34984

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F11

<400> 34984

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agcgatttct taaacgcgca ccaactcttc ttcgttgtgt tcgacaccga ctggctcaag 120
 ggctccactc tcgtcaccaa tggcgtgata actgccgggt ctgacgagtg ggcgatctac 180
 cgcggtacct gtgtgcttgc catggcgagg cgcgtcataa ggagaaggta tctcttcgac 240
 agggccggcg ggaacactga tgatctcaac atggatgtct tctgcctgcc gtctggctca 300
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 ccgcagcgtc ttcacagcgt caccgttcgt gctggcgcttg 460

<210> 34985
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F12

<400> 34985

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 caaccaccac aataaacacc actatcacc ctcctgctaa tacggctact ccgataccga 180
 ggtgattacc gacaccgact aaggccagta ccagaggtag atgaatgtgg agaacgatca 240
 caatcacaag catcacctcg gccaggccgt cgccatcgtc gtccacgctc tcgcactcta 300
 ctagaagcac gaggcgaata aggatcccct aactcgcac aggcacaaga tcaactga 357

<210> 34986
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F5

<400> 34986

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 tacaggcaca gttttcacia atgcgtcctg ttgcaatggc accttcagta tgtactctca 180
 tgcccatgtt tccacctagt gttcctggag ttggtcagca gttgttgtat ggacagccac 240

ctccagcctt catcaaccct caggctggat atgctttcca gcaacttatg atgcctggta 300
tgaagcctgt tggttcaatg ctcaacttta tgatgcctat tgt 343

<210> 34987

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F6

<400> 34987

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tctccgttgg tgatggcatc tcagagctcc aagaccgcgg acaccgccgt gccttcgacg 120
gaggttgcag ccaccggaga ggcggctccg ggcgcggctt cttcaacacc ggcacaaaac 180
cctaacgctg ctgcaaccgc agtggccggg gccacggatc tagagaagaa gatgcgcgcg 240
gcggagcggg ttgggatgcc agtactgatg tcagaggagg aaaagcgcag cagtcgcgcg 300
gagagatttg ggactggctc ttcaagtgt aaggaggaag agaagaagaa gtccagggct 360
gagaggttt 369

<210> 34988

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-F7

<400> 34988

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ttggctacgg ctatgcccc a gtgctggact gccacacctg ccacatcgct gtcaagtttg 120
ctgagctcat taccaagatc gacaggcggg ctggcaagga gcttgagaag gagccaaagt 180
tcctgaagaa cggatgatgct ggtatgggtga agatgatacc caccaagccc atgggtgggtg 240
agacattctc agcgtatcct ccccttggta ggtttgctgt ccgtgacatg aggcagacgg 300
ttgctgttgg agttatcaag agtgtggaga agaaagacct aaccggcgct caggtgacca 360
atgctgctgc 370

<210> 34989

<211> 196
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-F9

 <400> 34989

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 cggcacttta aacatctaac ccacaacttc actattgata accaacaatca atactccaac 120
 atttcactac atctatacgc atcataccta tctaactgca gacatagcat caacttttcta 180
 cctgaaccat atcatc 196

<210> 34990
 <211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-G1

 <400> 34990

 gcgacacgaa cgaccacgca gaataaatta caatcaaaac agcagacgct agac 54

<210> 34991
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-G11

 <400> 34991

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 gtaacgttgc tagagatagc cttactgacg ataagtcatt cttatgtctt gttttcttct 180
 gcgcaaggac gtattggcca gaaatgtttc atagaccggg aatacagttt acaggagaaa 240
 gcatgaatgc gttatgcac catgcgccgt tctcctgact agtggactga aaccgaatga 300
 gttttcagtg gcatagaaat accaaggcca tattattca 339

<210> 34992
 <211> 483
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G12

<400> 34992

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accactcgt ccgccagttc ttgcgagcac tttggtcttg tgtacttctc tctcgtatcg   60
ctgttggggg gttgcgtaat ttcagcaaag gactgatgca gtgctgatgt gccttccgct  120
ggctgctaac gcttatgagg cagcttccac caatcagtgc accctcatct tcaaaggctg  180
ttccaacagc atggaaaaag tctacgccat cagcagtcct agtcagaaaa gaaaatcaca  240
gcatgatctg agtgatccaa agttgctacc acttaaagtc aagtttcgca aactgttata  300
ttgccaggat gatgagtctg caaccacaga aagtttatga tatgatggta ttttcatgaa  360
caagactctt gggacggaca tggtcagcat acctgaagaa atggactctc gtgagaacac  420
tataagcctg ttttgtggat gcatagaagt tgactcaaaa aatggaattc acgaacaatc  480
ttt                                                                    483

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<210> 34993

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G2

<400> 34993

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gcgctattat cgatgttget gacacgatat cgttgttcaa caagctgcaa gagctatcga   60
tgtgcaagct ttgccctgat atttccagta atcacctacc aagccatgca atgagctctg  120
tgatattggc tatggcatca aatctggcac gtgccgatct tgaagaccgt agtccaagca  180
cacttttagc caggagtatg acgtccatct tgctgggtgga ttgtgaccat attagcttgt  240
ggcctactga caattcagat gatcgagttt gagaaagatt gaccatgtca cattcattgt  300
actctgcttg ctgcttagt gcatttgggt cacgaatgca tgcacatgc tgaacgctgt  360
ggtttgaacg aa                                                         372

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<210> 34994

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G4

<400> 34994

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aaccgctacc ttttcagacc acctccaagg ctcttaatgt atcttaacac tctcaccaat 120
caaattttca tgtctgatct cgacattcat atcccaacta ccttcaatcc ctctgcttag 180
accaatgctc tggactctgg tgcgtcatca ggggtcaaagg actacgtaca cgttcgcac 240
cagcagctta atgtttctcaa gagccttacc accgtccatt gattgaataa taagttcatc 300
tacagcaaga tcctcaaaga tctcaa 326

<210> 34995

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G5

<400> 34995

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tgagcaacgc ggtgctgttc gaccaggcta cctacgacaa gctgctctct atcgtgccca 120
agtacaagca gatcaccccc tccatcctat ccagagcgcc tcaagatcaa tggctccctg 180
gctcggaagg ctatcaagga cctgatggcg cgtggcctca tccggttggg ctctgttcac 240
tcaagccagc agatctacac cagggcaaca aatacctaag gatgggtattc ccttgatcgc 300
cctctctgga ggagctcgtc ttctttagaa cagatgccat ctctgtcaag agcttgctaa 360
tgct 364

<210> 34996

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G7

<400> 34996

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acggccccgg cgagttctac tgggcgccga tgctggccga gtccaacttc gacgacgccg 120

tagtgactc cgccgacgac cgtctcatcc gcggcgcgcc catggacagg cactccagct 180
tctggaaggg cgccgacgtc ctctcttita actcctacct ctgggtgggtc gccggggaca 240
aaatccagat cctgaggggc gccgacaacg acccgagcaa ggacatcgtg gagattaagt 300
cggatgaggg ctaccggctg gtgctgcacc aagtgggtccg gtggctggag cgcaacgtgg 360
accccggaac gtcgcgggtg ttct 384

<210> 34997

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G8

<400> 34997

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gtggttttga tatgtggcgg tggcagcaga ctctcctccg ccggctcccg ccgcctatgg 120
cgggtggcaca ggctccggcg tcctggggcg cgcaccgtct ggtatgctac tacgggtcta 180
cgccggaggg gagggaggga aaggcggcgc ctttgcaggc gcggggcatg gtctacaggt 240
tccagatgcg cgccaagggc ggcgacggcg gcaatggctg cgtcagcctc cggcgctcta 300
agtccaaccg ccacggcatg cctgacgggtg gtaatggacg gaagggtggg gatgtaattc 360
ttgagtgtct acgtt 375

<210> 34998

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E8

<400> 34998

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ccacttcttc accatgagca cctaagaccc tctcacacca cactcccaa cgcagcgtt 120
ctaccactg tccatcacca atttccccac ggcaatgcaa cagggtcctt actgctactt 180
tccgctccga caactaccac ctctgcaact acggcagcgg cggcttcaac gtgggtctcg 240
acgccgccac ggcgtacagc gccccctaca cagtcagcat cgtcaacatt tacaacttca 300

gcaacaacaa cggcacctgc acc

323

<210> 34999

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G9

<400> 34999

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aggcctaatt acaaatgctc ctaccactaa cataaaggca cctacaactc ctaaaaagga 120

cgcaacccca aacaatgctg actctgctac cctcccagac accaaactct attccaccaa 180

cgccaataac tactctccct gccttcacac tagccaaaac cccccctcaa taccacctat 240

acaaaccctt attccatcca tactgatcca atcacaatac cctcagtagc tctatattcg 300

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<210> 35000

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D10

<400> 35000

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tgcaatgggc cttcctgggt tttggatgga tgttggtcag ccaagagact acattactgg 120

attgcgtctt tatctagact cgcttaggaa gaaatcggct gccaggctag ctgctggagc 180

acatgttggt ggcaacgtgc tggatcatga gagcgccaag attggagaag gttgcctgat 240

cggctcctgat gtcgcaattg gacctggatg tgtcgtggaa gatggcgtga ggctttcccg 300

ctgcactgtc atgcgtgggt tgcgtatcaa gaagcatgcc tgcattctga acagcattat 360

cgggtggcac tcaactgttg gacaatgggc acggatagag aatatgacca tcctgggcga 420

agatgttcat gtgtgtgacg aggt 444

<210> 35001

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D11

<400> 35001

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gctgcacccc attccgtcta caccatgacg tagtgcattt agatccacat ctgccaagcc  180
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gatggtcaca tgcccagaga caacaccatt gaggctgggc atgatgcttt caacaccttc  300
ttcagtgata ctgatgctgg gaagcacgtc actcgtactg tatttggtga ccttgaacca  360
actgtcatcg attacgtgag gactgtcacc taccgacagc tcttccaccc tgagcacttt  420
atcaat                                         426

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<210> 35002

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-D12

<400> 35002

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ctcggcgcggt gcgtngcagt ctcggtaacg aggtgcacat cggcgacgcc aacgtcaagt  120
gctgcccgtc cgtgaagggc atcgccgggc tctccgcggc ggcgtgcctg tgcaccgcca  180
tcaaggccaa ggtgctggac atctccgtct acgtgcccat cgcgctggag gtgctcgtca  240
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tcccatctca ccatgcgtgc acagcgaggt ctctttttgc cctcccgaat gcaaagtgtg  360
aaaggctcgt cgacggattt ggggtctcct ttgcccaccc gaatgcaaag tttcgaaagg  420
ctcgtcgacg gattgtgctc ttcggctact gcattcttcc ttatttcatt tg          472

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<210> 35003

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D3

<400> 35003

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tacgggtatc catgcgcccc cggagaagat ggctactct actccaatct gccttagctc 120
aagctctggt cgaggaggca gaggccggtg ccagctggcg gactgagagg taggtagcag 180
cttgcggttg cggaagggaa gctgc 205

<210> 35004

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-D4

<400> 35004

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ctctgtccct atctaataac tagccactct gtcgtgtact catcaacctt ctgatcgctc 120
accatggcca ctgcctagat ccatacccc accctcgtgg cgacctaaga agcaccagta 180
atgtagacct cagctccgcc cgccgtcttg cccgacgagg ct 222

<210> 35005

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D5

<400> 35005

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ctcttcacgc acggcaagtt cgtcgacgcc gtctacggca agacgttcga gaccctagga 180
ccctcgcacc ggcgaggtga tcgccagcat cgcgagggga ggcaaggcct acgtctacct 240
cgccgtcaag gccgaccggg aggccttcga caacggggccc tggcccatta tgactgtata 300
ctagcgtggt ccgatcctgc acaggttcgc ggacctgac gacgagcacg tggaggagct 360

ggcggcgctt gacac

375

<210> 35006

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D7

<400> 35006

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actaattttca aagaaagaat caaacgatat tattgctagt ctttcgaaca aaaaaagaag 120

gaatcaaaag atatgtatat aaaaaacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcttggttt 240

tgaaattctg aaccagggtgc ctggatgaag gagctgacga gttcttttcta aaacctgtgc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgacaat tgcattggct aacgcatgaa cccacaatc agc 413

<210> 35007

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-D8

<400> 35007

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actatttttca aagatagaag cccacgacat gatcgctcgt ctttcgaaca aagaatgatg 120

gaatcaaaag atatgtatat aaaatacaca agttgcaaga gttgtctttt aacagcatat 180

atatgatgct ctatatatga tcaacgggag agagagaaaa ctaacaatcc ttcttggttt 240

tgaaattctg aaccagggtgc ctggaggaag gagctgacga gttcttgcta aaacctgggc 300

ggctatcaga catgaacaag ctcaagcccc acatactgaa aagcagatgc aaccaggaac 360

agcaccagca aagtgaca 378

<210> 35008

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-D9

<400> 35008

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gccgatgctg gatcgctatg tgctcagcag taagatccat agcgtgctga gatacatggc 180
acctgatttc acttgcacaa ctgtcaatgt cacggataat tgcgacatat acagcttcgg 240
agtgctagtc cttgagattt tgtcaggcag aaggcccgta gaatatctgc aagatagtgt 300
ggctgtgctt tctgatcttg tctactgatgc actcgatgat gacaggctgg aggactgcat 360
ggatccacgg ctactaggtg agttctcgac ggtggatgcc aactgatca tcaagctggg 420
cctgggtctgt gcatctgang tgccttctca acgaccggac 460

<210> 35009

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E1

<400> 35009

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ataggtaact tttcaacaga taaacaatat tgcttctctca acaatacaat gtctagaaga 120
atatacacia tctagaactc ccgatagtta caatcaactg ttctcggcat ttcaaccaca 180
tgaatgtgaa ggatgcacat aatccacttc gtccttttcc taataaaata tctgagactc 240
gctcaagtac ctgggtcaca 260

<210> 35010

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E10

<400> 35010

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ttcgtcggcg aaggcagaga tggcgtccgt ggccgcggcg gaggtcgcgg cggcggcgct 120
 ccggtcgggtg ctgtcgcgcg cgcagcatgc ggcggtcgcg gcggggcgcg cgccgggggtc 180
 cgtgcgcgtg gtggcgggtga gcaagaccaa gccgggtgcct gtcattccggg gcgtctacga 240
 cgcgggccac cgctgcttcg gcgagaacta cgtccaggag ctcatcgaca aggcgcctca 300
 gcttcctgag gatattgagt ggcaattcat tgggaatctg caaagcaaca aagccagagc 360
 cctacttgct ggcggtgcaa accttgatat ggttgagagt gtcgatgatg agaagattgc 420
 taaccgtctt gatcgagtgg tagctgac 448

<210> 35011
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-010-Q1-K1-E11
 <400> 35011

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 aaaggcgcag gtgatgcaa tgaggaatct ttctgatggg caaaggagcc gtgtcatctt 240
 tgcattggtg gcatataggc agccgcaact gctactgctc gatgagccga caaatcattt 300
 ggacattgag accattgact ccctggcgga ggcaactgaat gagtgggatg gtggtttggt 360
 cttggtgagc catgatttca ggctgatcaa ccaggttgct caagagattt ggggtgtgtga 420
 gaatcaggcg gtgacaaggt gggaaagtga tatcatggat tt 462

<210> 35012
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-010-Q1-K1-E12
 <400> 35012

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 aagggcggat gatgttcggc ttcgggcacc acggccacca cggccagaac ccgtcggcgc 120

acggcggcgt gcaccagccc accttcaaga ttttctgcaa ggccgacgag gggactgccc 180
 tcaccgtccg cgacggcaac gtggtgctgg ccccgccaa cccgcgcgac gagcaccagc 240
 actggtacaa ggacatgcgc ttcagcagcc aggtcaagga cgaggagggc aaccctgcgt 300
 tcgccctggc caacaaggcc actgggctcg ccatcaagca ctccctcggc cagtcccacc 360
 cgggtgaagct ggtgccgttc aaccggagc accaggacta gtcgggtgctg tggacggaga 420
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<210> 35013

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E4

<400> 35013

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 tgggtacaac cgtagaagag agagagagag agagagagct aacaccaccc accactgtcc 180
 ctagctagct tatttacagg cgttcgtgat caccaacagc ttctcgtgag aaagagtgca 240
 acgggccggc cgggcagaag aggtagctgg gagctagaga gaaaaaaagg gtgcaccgag 300
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<210> 35014

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E6

<400> 35014

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 acaacaagcc accagttcca ttccatccca ttctttcaga ctacactgc acacacaaca 180
 ttacaggca ccataacgat taccatgcaa caacatatct tgtccacttc ttaggacaga 240
 cttataaagg caccttttca ccttaca 267

<210> 35015
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-D1

 <400> 35015

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 ctccgtatct gctatcaggt tataaggtat aagctgtgac aatcattgat atgaccatta 180
 gcatcatgaa tgataacata taggcttctc tgactgcgca tgacaaagta tgcattctat 240
 caactttgca tgcgaactga cacagaattg caatggttga tgattgaa 288

<210> 35016
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-E7

 <400> 35016

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 cgggtgcgtg ctctacagcc ccagccccta cgtgaggaag ctcttcacct tcaataacat 180
 gaagggcggg cactacaaca ggtccttccc ggtgaccgcg cccgacgagt acgcgctctt 240
 cttcgccaac tgcgccccgg ggtcgctcgt ctccatgacc gtccgtaccg agatgtacaa 300
 cgtcggcgcc gacggctcca aggactacct ccccgtcggg caggcgcttg ttgccgtcat 360
 ccacggcgtc ttcgcgctct 380

<210> 35017
 <211> 480
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-B12

 <400> 35017

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 ctagtaaaga agtggcagac attgattgaa gcccatgttg atgtcaagac aaccgacaac 180
 tacatgctgc gtttgttctg cattggtttt accaagaggc gcccaaacca ggtcaagaga 240
 acctgctatg ctcaggcatc ccagattcgg cagattcgcc gcaagatggt tgagattatg 300
 atcaaccagg cttctacatg tgaccttaaa gaacttggtt ctaagtcat tccggaagtt 360
 attggcaaag agattgagaa gtctaccttc agcatcttcc cacttcaaaa cgtcttcatc 420
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<210> 35018

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B2

<400> 35018

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 ctttgcacac ctatcccccg cccggtagta gcctatacgc cgttgcttag atggagttca 120
 tagacttcgt cggtaggggtg ctcttcgtcg ccgctttcct cctatacgc taccaggagt 180
 ttaatgaatt cgggtgctgat ggtggaccag cagctaaggc ctttcggtcc aaattcaacg 240
 tgtttgtcaa aaatgtatct gtcacatctgg gagtagctat gccacac 287

<210> 35019

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-B3

<400> 35019

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 cggcgtcttc ccaactgtgac cggccgctag cgacgacaga gctgctctat tcttaaacia 120
 atggcaccgt ccagtacca aaccttttga acaacctgca cgaaagccgt attgtcaaac 180

tcagtgggta tgagtcaagg gttatcttgc ttctgggact catatataat ctacacttgc 240
caacac 246

<210> 35020
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B5

<400> 35020

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tatccaaatt actgtaaagt cttgagttca acattaagct caataatggc ctggacagag 120
aaaagacttc tggcatatca tgaacacctc aatacatgta atatcgagtc tatgcaaggc 180
attgactcca ttggagtgtc agctgcaaga atccttggtg aatatatata tcacgaatac 240
cgccgtacaa gaaaagaata gactgatgta gcccgagca tggatatagac atacataacg 300
tcttcactaa ggacagcttt tgctcaaaga atggaagaag cagattcata acggtcatac 360
agaaacccta c 371

<210> 35021
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B6

<400> 35021

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ccacaatgcc gcgccatctc gcgctgctcc tgccccctgct actgctggcc tcgccagcgg 120
ccacgcgcct ggcgttcgcc ggtgcccgg gctacaagtt cccggcaggg catgcatacc 180
cttcgtgccg ggacctgccg aagctgggcg cgtctctgca ctggactgta cgacgcgttc 240
aagagctccc tgtcagtggc gttcgt 266

<210> 35022
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-B7

<400> 35022

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ccgctcccgc tcttcttccc tccgacgaag gcagctgacg acacagcagg ctagcttcgg 120
agttcggagc actcagccat ggccattgcc ggcgctctcc tctctctgct cggactcctc 180
gcgcgggagg ccgctgccg cggttggcag agcgcgcacg ccacgttcta cggcggcggt 240
gacgcgtccg gcacaatggg cggcgcttgc gggtaaggca acctgtacag cacggagtac 300
ggcacgagca cggcggcgct gagcacggcg ctgttcaacg actgcgcggc gtgccgggtcc 360
tgctacgagc tgcggtgcga caacgacggg cggtggtgcc tgccgggcac cattaccg 418

<210> 35023
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B8

<400> 35023

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ccactagttt tggttcctcc tttcgttcga gagagcgatt ctggtggcaa tggcgaagag 120
cgaggggtccg gcgatcggga tcgacctcgg caccacctac tcgtgcgtcg gcgtgtggca 180
gcacgaccgg gtggagatta tcgccaacga ccaggggaac cgcaccacgc cgtcctatgt 240
cggcttcacc gacaccgagc ggctcatcgg cgacgctgcc aagaaccagg tcgccatgaa 300
ccccaccaac accgtcttcg atgccaagcg gttgatcggc aagaggttct ctgatccgtc 360
agtgcagagt ga 372

<210> 35024
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B9

<400> 35024

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ggttgctttg gataagatag gcaaccatcc atgttttgat ccaagaaagg atctagtgtc 120
tccggcatgg aatgaaccta acccaggggc catatgggta aaactgtggg caaggccaag 180
gaacaaccgt acaacacttt tttatttcaa cggtaatcta tggttcagcat acgaaagagg 240
ccgtccagaa gacacgtata gcatggggat tccggcaaaag ctagcagctg aatttggttc 300
cacaccaaac aagcaaggaa gccttggact gcaacatgcg gccgatgtga cagttaccta 360
tttacgaact gagaaatatt atgaagaact agcaagctct gatttttgtg gtgtcctgcc 420
aggggatggc tggaatggcc gtatggaaga tagcatg 457

<210> 35025
<211> 189
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-C1
<400> 35025

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taaataaata gtaaagtcca acattcccat aagtaaaacc aacaaaaaca actaaacaca 120
caaaaaacta caaaaaaaca aaaaaaaaaa aaatccaaaa aaaataacaa aaacaaaaaa 180
aaagctcca 189

<210> 35026
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-010-Q1-K1-C10
<400> 35026

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aggccttcgt ctaaaaggcc tctctgggtc atcgtgttgg ttgcatttgt ctgtgcagta 120
gccattggag cctaccttta tactccacgg cattacacag catgttatct ggtaccatca 180
gaagcctgca attctcggcc tcctccagaa cctgctaggg tatacactga tgatgagatc 240
gctgctcgtg ctatcatgag agacatcatc cgggcacggc cagtgcagtc aaagaatcca 300

aaaattgctt tcatgttctt gacgcccagt tcattgccat ttgagaaact gtgggaaaaa 360
 ttcttcatgg gacatgaaga ccgattcacc atatatgtgc atgcatcaag aga 413

<210> 35027

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C11

<400> 35027

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 tgcgcgtatt ccccgacgc gagagcggac tgcacggcag agcctgcgcc gactacatgg 180
 tcgtcgccac aagccgctcc gattggcaca ttcgtaacat cgcgcatgcg ctctcttaca 240
 agataaacca aaagcagaag gtctctgata gaatattgat gccaaagtga aaacgtcagc 300
 aagcgggaaa atgagctgctc attgattctg gaagcataat catccatgca cttgaagaat 360
 gggcaagata gta 373

<210> 35028

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C12

<400> 35028

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 ctgcctatc ttctcggccg atttcgttcc ccttcttgcc attcttctct catttctcac 120
 caccgccgcc gctacccctt ttctacaaca ccatgaggga gtgcatctcg atccacatcg 180
 gccaggccgg tatccacgctc ggaaacgcgt gctgggagct gtactgcctc gagcatggca 240
 ttcaggctga tggtcagatg cccggtgaca agaccattgt gggaggatgat gatgctttca 300
 acaccttctt cagtgcgact ggcgctggga agcagcttcc ccgtgctggt tttgttgacc 360
 ttgagcccac tgcacatgat gaagtgaaga ctggcaccta tcgccagctc ttccatctctg 420
 agcagctcat c 431

<210> 35029
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C3

<400> 35029

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ctcttgcatc tggatcagtc tttatctgct ctagctctag cctctatccc tatctagtat 120
ctagccactc ggctcgagtag tcatcagcct tctgacgctc acccatggcc actgccgaag 180
tccagaccc 189

<210> 35030
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C5

<400> 35030

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acagatcatc tccaacgccc tcggtatgaa gtcacatggac atcctcaaca agtcaaata 120
gatcagtcctc ttgttggatt tcatttctag cctacccgat ggtgagagca agtgaacgca 180
tgcgacacttg gaggagacaa cgtcacatga taagggttgt caaggcggtg atcaagtgga 240
cgtagcggct tatcgacaag catgttttgg tctgttagag ctactacatg aaagtttttt 300
tcgctcagat acatctccat tttgttctga agtcatatt tgggaatata taagaatcga 360
aaggggaaa 369

<210> 35031
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C7

<400> 35031

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aaccattgga caatatttgc tatgagaaaa gatctgaaaa cagcccgcca ttgtgcaagg 120
aatctgatga tgcagatgct gcttggaatg taccgttgga agcatgcatg cacaaactgc 180
ctggtggctc aaaagtccga ggatcaaaat ggccagagtt atggccgcaa aggcttgaga 240
agacccttt ctggattgat ggttccaagg ttggtgtcta tggaaagcct gcaaataag 300
atcttgaggc agataatgcc cactggaaac gggttgtaag taaatcgat gtgaatggca 360
tggaattga ctggtccaaa gtgagaaatg tcatggaca 399

<210> 35032

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C8

<400> 35032

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gaaaaaaaaa aaaaaaaaaa aaacaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaccaacccc ccaaaaaaaaaa 180
cacaatatca caaacccaac aaacccaaaa ccaacacctt caaaaagaca ccccaaaaca 240
aaaaacccgc cccctcttta aaaaccaaca taccgaaaaa aaccctgctt caaccaaaaa 300
aaaatacctc aaaaaaaacc cccttaaac caacaaacaa aaaacaaaaa acccccaccc 360
aaaaccccct ccaaaaaaat acccaaaaaa aaaaacaaaa aacacccccc caccaaacca 420
ccaaaaa 427

<210> 35033

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-C9

<400> 35033

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agtaaccatt ttttgaagag aaacatatct caattttccg ggtttgtttg gacagacaat 120
caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180

ctagatTTTT gtgaaattct ggacgttatt gtaaaagtaa ctacaaagaa tgaagaagtt 240
tctgccaaagc tcttggaatt tttagagtct ccttgtgtta ccagggatgt tattctcact 300
gataaaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcatga ggtaacttct 360
gaagggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaagatggc 420
aaagagaatg atgatgggga tgatgctgat cttgctgggt c 461

<210> 35034
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B11

<400> 35034

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gctccaaata tgaaatTTTT tcacttttac aagctccaca actttgatat atggactttt 180
caciaattct caatggattt taaattccac ttttgagact aatttatact ttcaaatgtg 240
actactattt ctccaaacca cctctcaact ttgatccacc actaaaagca aagtactac 300
ttaatcaaag atccaacttc ggtactcaca acttatggcc aaaaaggccc ttatttatgg 360
acttgctttg attatgcacc atttactct tgggctcaat ttatggtttt gaagtccatc 420
cctctcctta agcgatcctt tcacttgatt tacac 455

<210> 35035
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H1

<400> 35035

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gccgggtcgt ccacccgcaa cgcacaggag gattccatgg ccaacaacac cgggacgttg 120
gtgggcggca tccaggacgt gccggttagc gagaacgacc ttcacctcca ggagctcgcc 180
cgcttcgccg tcgatgagca caacaagaag gccaatgctc atctgggggt cgagaagctt 240

gtgaaggcca agacacatgt ggttgctgtc acgatgtact atctcact 288

<210> 35036
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H10

<400> 35036

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cagtctgagg acaaggaacg tttgattgct aagcttcatg atgttgtaga ctgtctctat 180
gaagatggct agcatgaaac taagggcgta tatattgcta aactactaga acttaataaa 240
gttcgtgatg ctattgatgc tcgctataag gaatgtgaga ttagaaattc tgatgttagt 300
caactgatat actgcatcaa tagcttcata gaatctgcac agtctaccga ccagaagtgc 360
tgacacatag acatgtcata aaagcgaaag gt 392

<210> 35037
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H11

<400> 35037

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tgtggtgaag aaaatcacca tgacatccag acagtcttga ccaacgggtga cacttcttcc 120
aatggagctg acaattcagg tcccaccaag gatactgagt agctgaactg cagcttgcctg 180
catcgctaac cacaaaggcc caagttatta ctttttgcag acctattttc agttctagcc 240
cctcccttcc catttcgatt ttgtttgtta agtcctcccg atctgtatctt attaacttgc 300
atgatgcggg tcaccgaaga cttaggctgc tgcagaagtt ttgtctctgg cgggaagcta 360
tatgcaagag ggtggtaccg gttcgttccc cagaatctat gtgcttgcta acctgaaggc 420
cga 423

<210> 35038

<211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-H2

 <400> 35038

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 gggccgggtc gatcaccctc aacgcacagg aggattgcac ggccaacaac accgggacgt 120
 tgggtggaccg catacaggaa actccaggca gctagaacga cacttcagct ccaggatctc 180
 gcccgtttct ccgtcgagga gcacaacaag aaggacaatg ctcttctggc gttcgagaag 240
 cttgtgaagg ccaagacaca agtggttgct gtcacgatgt actatctcac tattgaagtg 300
 aaggatggct a 311

<210> 35039
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-H3

 <400> 35039

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 aaggtggtgc tgcagcggat cgagaacaag atcagccggc aggtgacctt cgccaagcgc 180
 cggaacggcc tgctcaagaa ggcgtacgag ctctccgtcc tctgcgacgc cgaggtcgcg 240
 ctcgctctct tctcccacgc cggccgtctc taccagttct catcctctct caatctgctt 300
 aagactctag agcggtagca gaggtacatc tatgcttcag tcgatgctgc agtgccatct 360
 agcgatcaga tg 372

<210> 35040
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-H4

 <400> 35040

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 ttacgatcta ttttggccta gctagtccag gcagtacaaa gcgccaaact gctgaagaac 120
 atgtgcta 128

<210> 35041
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-009-Q1-K1-H5
 <400> 35041

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 tctgcttgag aaatttagct gcagtgcac aaagctgcac ctgaagcctc ggaggttcaa 120
 aacatttgta gaagcattgg gaaaacaact gctgaaggac agaaataagt ccaggaaaaa 180
 gcattcacga gtggatatgt gcatacttc tccatctcca gttatcagca aggctcctgg 240
 ggatgagact cctcctgtaa agttcttgct aatagattcc caaaatggta gcagagtagc 300
 atctcctaaa gggacaattt tcaagcggat tgcagaacca atttctaaca agtcaagaac 360
 aactagaggg gacctctttg ccacaagaac cgtgaaaccg aaaaggaaag caagtgggtc 420
 ttgtgca 427

<210> 35042
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-009-Q1-K1-H9
 <400> 35042

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 cattcttcac cggttcaccc tagccgccac cccaaccccc agcgacaggg accttcgccg 120
 tcaggccgcc cccaatccct agcgactgcg agcacgctcg ccaggcgccg tgcagcgagc 180
 gtcgccgcct ggcgaagtcg cgcgactcgt gccctgcagc gagcgccgat gtcccgccac 240
 caccgtcaaa cggctgccga tgcccaacgc cct 273

<210> 35043

<211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-A1

 <400> 35043

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 aagagtgaca cagacaagaa atctcgtgtt ctagaagcag tttactacta taacatcgag 120
 tcgattcttg cactcatcgt gtccttcttc attaacatct gtgtcacaaac tgtttttgcc 180
 aaaggatttt atgggtctaa acaggctgac agtataggtc ttgagaatgc tgggcagtac 240
 ttacaagaaa aatatggaac tgcattcttt cccatcctct atatctgggc tgatgggttg 300
 atagcatctg ggcagagtag cacaattact ggcacatatg caagacagtt 350

<210> 35044
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-A11

 <400> 35044

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 ttctaattcct taacttcatca tcatccatca cttcattccc aacttcttac cactcccaac 120
 cacatctatc cactacgcct cattctatga tattactcac ctctaataca tcataataaa 180
 cttcaaccac cacaacaacc catcaaactc cacttcaatg ttcttaaata ttctgatcta 240
 caacacatca tctctcccaa accaacaatg ctttctgctg ccttttatca ttcca 295

<210> 35045
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-A12

 <400> 35045

 gaccgacgcy ttcgacatgg cttcaaaccg gtggccaatt tccgtataga agtgtgcgca 60
 tcttctttcg ggtacgtgtg catttgatgc catgacgacc tgttccacaa ctacgagatc 120

attaaaaatc ggttcaagct ctagccatgc aacttatcga gcctgaccat caccttgctg 180
 ttccagtacg gctgctaact catatacgtg ctctgtctca tcttgacga ctactgagac 240
 agcgacatgg tgtaggccgc cctcaagcat gacaccttac tacactagga gcacgttcac 300
 gaatactggg gctgca 316

<210> 35046
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-010-Q1-K1-A4
 <400> 35046

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 cnacgtcgac ttccgtcgcc ctccatctcc tcgccgtgc ctctcgtttc tcttttcaat 120
 aatcaagatg agccgtggtg gtagtgccgg tgggtggtaa agttctctgg gttatctctt 180
 tggaagcggg gagccccca aaccagcagt ggcaccagct gcaagtgtc cacctgttga 240
 gaaaccatct gctgcaaaga ctgatgcggc caagccatgt gctgctgggg gtaccagcca 300
 aaccaataac taccacaggg ctgatgggca ggacact 337

<210> 35047
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-010-Q1-K1-A6
 <400> 35047

ggggccaaca gtggtgccgg gttccgatta cgccaagggtg cagcgtgccg tgtgcatagt 60
 ctccatctcc accagcgtca tccaggtgtt ctcccgcatc aacagtaatt tcgacctcat 120
 gtacgccaag cgcgcgttcg tgcactggta cgtcggcgag ggcattggagg agggggagtt 180
 ctccgaggca cgcgaggacc tggccgccct ggagaaggac tacgaggagg tcgccgcaga 240
 gggcggcagt gatgacggcg acgaggagga ggaatactga tctgcttgca tgaatctgtt 300
 tggctgtcga gccaggttgt ggtgttgaaa aacctttgtt tgtgtctctg gtaatgtttg 360
 ggtgttt 367

<210> 35048
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-010-Q1-K1-A7

<400> 35048

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tgggggcgat gcctttgttg ctggagtgtg atctcaatta gccacagact tttctctgct 120
ccatgatgaa ggtcggttga gagaagccct gaagtctgca aacgtctgtg gagcttaacc 180
ggaccagaag gcgctattct gcgctgccac cgacaacatg ctgaccctga caattgtgct 240
gaagtaccct gcaccactac ttgtggggta tgtgattatg aaccgcctga gcgccatgtc 300
gatagattac aggcgtgatt tcgcttgcac accacttggc atttttgttg gtgcgta 357

<210> 35049
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A8

<400> 35049

ccgacgcgtc cggcagtatg tttatcatta tgacgacgac tactatccat atgcaattgt 60
ccgtat 66

<210> 35050
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-A9

<400> 35050

gaccactcg tccgcttggg cgtccgttac tatggggatc tcttttgaac tgagccacat 60
gatcctgac ggcccgaatg tctcctaacc ggacgatatc atcacctcgt accatattcct 120
gacactgaag tggcacgctg acaagcactc gccgtcgtac aggccgtaag cctatgcgcg 180

cttcaaggcc atcagcgagg cctactacgc gtccttggac catcaagaca acaggtgcg 240
gttctagctg tgcaacaacg gtcgtacggg tgataggact cgcagcgctt tcgctggcg 300
acacggctgc catggccgag gatgaggatg 330

<210> 35051

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-B1

<400> 35051

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atcatgctct acattgacca ccatggtttt gatgtcctcg ccaaatgcc tcaaggagac 120
atccttacta atccacaata ccactggaag gagttcaggt tcacattcaa ggaacctgcc 180
aaagatgctg aggacttctg cgcgatgctg gttgggtag aggaagagtg tttgcagacc 240
gtgaagagct gcagcgggta cggttgacaa cccacttgca aggttcacat tctaggaacc 300
agccaaggat gctgaaggac tctgccgcat gctggttcga ttagagggat tttgcaacgc 360
gtgaagagct at 372

<210> 35052

<211> 204

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-B10

<400> 35052

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gggacggcac gttatggtat acaccgcaat taccctctat gcgctctcta cgtcatcact 120
tgcaatatgg acttgagaca tgaccttgac taaatatcat ataaaatgtg aagcaatgtc 180
catataaaat ttcaggtgca tatg 204

<210> 35053

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F3

<400> 35053

tcgcccactc gtgctccgac tcgtgggcca ggtttggctc tgcaggaatg catggttaag 60
ggggggcggg cgcggtcatg tgccctcatga gcaaccttat ggctctaatac ttcgcgtcgg 120
actggacgag gagcagtctc tgccggcaca tccgccaccc cggcgtgtgc agcgtctgca 180
ccagcgactc cggccgggctc ggcaacaagg gcgcggtgtc cgtacggatc ttgctacacg 240
gcacgagctt ctgcttcgtc tgctgccacc tgtgcct 277

<210> 35054

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F4

<400> 35054

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gggtgggactt taatatcagc gaaatggggg tttctgcgta cctttgttat atggctatgt 120
atctcatctt tgtggagttt ggaatttact ggatgcacag agagttgcat gacataaagc 180
cactatacaa acatctgcat gcaaccacc atatttataa caaggagaac accttgtctc 240
cgtttgctgg acttgcgctt caccactgg atggtattct gcaagcaatg ccgcatgtgc 300
ttgcgctctt cctcttccca acgcacttca ggacgcacat cgctctcgtg ttcttggagg 360
gcgtgtggac gacaaacatc ca 382

<210> 35055

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-009-Q1-K1-F5

<400> 35055

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tctctcctct cggcgctccc gttccccaac ctctcgtctg ctgcctgcct gcctgcctgc 120

ctgcaaaaag gagtttgtca tggcgtctaa gcgcatcctc aaggagctga aggacctgca 180
gaaagacccc cccacatcat gcagtgcagg tcctgctggt gaggacatgt ttcattggca 240
agcaacaatt atgggaccac ctgacagtcc ctatgctggt ggtgttttct tagtgaacat 300
tcatttcccg ccagattacc ccttcaaacc tccaaagggt tctttcaaga caaaggctctt 360
ccatccta atcaacagca atggaagtat atgcctngac attctcaaag 410

<210> 35056
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F7

<400> 35056

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cgggcgcaca tgcgctcgag gcatgataga gatagaggcg gtgagcaaaa ctatggatgg 120
gaaagaggag gacgtgcgcc tgggcgccaa caagttctcg gagctccagc ccatcttgac 180
ggctgctcat ggcgtgctg acgactagga ctacaaggag ccccgctcg cgccgctgtt 240
cgagcccgga gagctcaagt cctggctcct ctactgcgcg ggcctcgtcg agttcgtcgt 300
catcttcctc ttgctctaca tcaccattct caccgtcatg ggcgtctaca agttcacctt 360
c 361

<210> 35057
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F8

<400> 35057

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agtggcgca tgggtggagga ctctgcggcg tccacggtgg ctccagagtc aacttctgac 120
gcagatcagg ctatcgagga cgcagccccg gaggacgggg tggacgagga tacagtgaca 180
aatgttgatg tcagtcctga ggacatgaga agcatcattg aagttatagc tgacaccgga 240
aagttctggc atgactggag gttcctcaag agtgtactgt ctattcaatt gaagcaggtc 300

ttggatgaat attttgaggt tgaaatggtg agccaaaatg atgggcaact gaggtctttc 360
tcagagctat ttagtcggct aaatggtgcc cttgaaaggt ttgaagaggg tcctccattc 420
aactgcaaa agctttgtga gaatttggtg gatccaa 457

<210> 35058
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F9

<400> 35058

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cacgctgttc tactcgctcc tgttgcgcca ccaattcgcc ttcttcgacg cccgctcctt 120
ccaatccctt gacaggctgt tcaacgcctt cccctgcag aagaaccc 168

<210> 35059
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G1

<400> 35059

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taccgtgtgt gtctttaata tcagcgacct gggcttctct gcgtaccttt gttatatggc 120
tatgtatctc atttttgtgg agtttggaat ttactgcatg cacatacagt cgcgatgacat 180
aaagccacta tacaacatc tttatgcaac ccacatatt tacaacatgg ctaacacctt 240
gtctccgatt gctggacttg cgtttcaccc ac 272

<210> 35060
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G10

<400> 35060

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ggtgatcata ccaaattgggg cgctgccacc acccgaactg cttatctggt gttgagaagg 120
 cctgtctgaa caccaacagc tgtacaggat ccatgacaga cgagagcttc tggaaggatt 180
 tatgccctgg agtcacccaaa acacttgaca tcgaaacgga atgctcttac tgacctactg 240
 aacacgaacc gtctcagtgt gcatctaagt tccactgcta gtatgcccggt caaaattcta 300
 aaactgtagt gctagttgca cggcaatgct attgtaacct ggattggaat gtatacatct 360
 gatctaggct atgtttcaag agctacttta aactaacggt agagctgagc agcatgaaat 420
 ctgattaacg c 431

<210> 35061
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G11

<400> 35061

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 ggcgctgcct taccaggcat ctggagtcga cgtgacgacc gtactctcgg tgtatcccaa 180
 cttcgcggac tttgcgcgta tgatggcata caccacgtg gtcagcgagc tgtcctggag 240
 atcgtgaatg acgctactgt ccgtgccgaa tgccaacctg ccgtagtcac cctaggcttt 300
 catagctagc gccagcgccg acattgccga cgtgctgaag tatcacgttc tgctggagta 360
 cctctacgcc tgcgacctgg accgcctcta tccctccggg aagctcgtga cgactctggt 420
 tcaaa 425

<210> 35062
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G12

<400> 35062

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 gccgtgacct cgatcccctt ctcttgacg caggctccat gccttttctt cgtctctgcg 120

ggccgctgtc gcgtcgtgtc tgcgaagaat ggaggaggcg gaggcacaa gcagtagtac 180
 gacttctggc taattgagcc catcatgttt agtgggtgccg gtagagacga cgccgtcgtc 240
 gtcgtccac tcaagaacat gggcaggcga gggagctttc gttgtgggaa tcagatttga 300
 agcggcgaga ggtgggtgggt tgtgcttgat cgggtgggtg ctcatgcctt ctgttttgtg 360
 gctgtaggat atcaagagga ggaaagaggc gctgaagaat ggtgcagatc cacatttgtt 420
 tttgcataat tgct 434

<210> 35063

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G2

<400> 35063

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 tgatagcaca catgtgctgg aatgaaagat actattgatt gtgcaaaaat tcatgaaaac 120
 ttcttgctat ccagaaaata atcgatttca tacatcaatc ataacacgta tcatatttct 180
 tatttaaaaa aaaaacacaa tacaacatt taaatacaac ccacca 226

<210> 35064

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G4

<400> 35064

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 tgatggtcgg ctaccagtta ggcggtaaaa aactcaagg acaactgaag agagaaaaca 120
 acaccaagca cagtagtaaa ccgttttgac agacaaggca gcagccgtcc ggtaccgggt 180
 acatattaat tgaccatcaa cacattgcat cagcagcctt catggcctgg ggagggaaga 240
 gaccctgtga cccctctttt gttcaccttc acattcttgg agattcgtca gtcagctcag 300
 ctcgtgtaat tcattgcagc agccataggc cgtagcagca gtctgtacca tgatcaggat 360
 cacttgtaac catgattcat tcaattgtta ctgacagccg ggattttcat tctaaa 416

<210> 35065
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G5

<400> 35065

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 aaccgctacc tcgttgcggc ggatgccctc tccgacgacc gcgccaagga cgcataatggg 120
 gatgtcctcg ggatgggtgtt cgccccgatt ccgttccagc cggaggctct tcttctcgcc 180
 agccgcgagc ctgctgctcc tgccgcggac caagtcgagc ctgctgacac tgtgcccacc 240
 gctggtttgg cagccaccat atccgacttc ttcaggctga tggctctccc tccactagac 300
 ccaaactctgc tagaagaatt tgacactcag aaagtaagtt ggtaccata caagcatttg 360
 ctagcattcg tgtctgggaa gaa 383

<210> 35066
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G7

<400> 35066

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 ggctgttggc gaggggtgaag aagatgaatc cgtcaatgtc tctgcaactt ccgtccggac 120
 ggctccaaag aattatcagg caatcagtac tataagccac atctcatttg ccgaggaaga 180
 aagcatctct ccaaagaagc caacttcgat agcagaggtc gcaaagcagc gcgagctaata 240
 cggcacgctt ctgatcgagg acgacagcaa gatgaagagg cagatatcgg acctgaaatc 300
 caaggagctg agcgggtcact acatctttgc cccttcggag gatc 344

<210> 35067
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G8

<400> 35067

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ggagtgggtg cgctacatgg gcggcctacg gcacagcacg ttccatcagc acgcgctgga 180

ccgcgcgtgc acatcgtact cgctcgtcgt cgacgcgaac cctgcgttcg gagacttcac 240

gaccatagat gccgccgtcg actcgtctcc agacatgaac ctcgtagcgc tcgccatcag 300

ggtcaaccgc agcacctaca ctgagaaggt gagcatctta gcgatgcgcg cgtgcatcac 360

cgtggatggc gccggagcgg acagcacgat cgttcactgg ggcg 404

<210> 35068

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F2

<400> 35068

tcgcccacgc gtccgcccac tcgtccgcaa actttcttgg agaagtttga taaaggatct 60

ggggatgctg ctattcaaca agtgaattgg gacacctcaa aagtgaagga taagcttaga 120

cgtgacattg aggctcatgt agcttcagtt cgagctgcta aattatctga actttgtgcc 180

aaatatgagg cacaacttac caaagctctg gcggaaccag ttgaatctct tctagattca 240

gccagtgaag atacgtggcc agctattaga aagcttcttc aacgcgagac aaaaactgcc 300

gtttcaggtc ttcaatctgc tgtgtcagct tttgaacttg atgaagcaac tgagaaagaa 360

ctgcttgtga aagctgtaga agcatggaat gaagtgtgtt gtagcatagg caaaagaaga 420

agctggaagg gtt 433

<210> 35069

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D7

<400> 35069

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ttacgcgaag ggaaatggcg accgttccag gggatctgat ctggcagatt gtgaggaaga 120
 acatctcctt cctggtgaag cagtttggca acggcaatgc caaggtgcag ttcaccaagg 180
 agcccaacaa cctctacaat ttacactcct acaagtactc tggcttagca aacaagaaaa 240
 ctgtaacgat ccagccagct gctggaaagg actcggctgt ggtcctctct actaccaaga 300
 ccaagaagca gaacacaccc gcgaagctca gccacaagtc tgtgatgcgc aaggagtcc 360
 gcaagatggc caaggctgtg aaaaaccagg ttggcgacaa ctattacagg cctgatc 417

<210> 35070

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D8

<400> 35070

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 ctcatcgggt atggaacatt acattagttt cccgtgacaa aaaaggacat gagggaaaaa 120
 acgatgaaga tacaacaaga aatcgaaacc ttctcatgct gttagattgg ttaactgacc 180
 tacacaatth gtcaaacaac tcaaccaagc actacgtgag ggccttatta tacaagtgtg 240
 ttcaagcaca tataacagct tgagcgacta gaatcatgcy cgagctcatc tctaagcttt 300
 gagctcttta ttcatctacc ctccaccgtg tgtatgctat ctatggccag catatagtgg 360
 cagtaccgta tgaatgtgcy tgcatgccat ac 392

<210> 35071

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E1

<400> 35071

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 ggattgggag ttaggacaca tacgctagag agagagagag agagagaggt ggtggccggt 120
 gggacgtccg tgggtggtgt ggagttggat cggctgtgct tgttcctcgc ttcttgctgg 180
 atcagaggag gtcatgatca actaatgcct attcatttat tatggacttg caccagttgt 240

taaagtacag attaactggg gctaactgtct actacgaatt tcctacagag aacaacttag 300
 caaacactcc ttggccagct agtccactga agtctgagtt cagcagctca tcatacactc 360
 ctctttttatc ccagcttgag tgtgataatt t 391

<210> 35072

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E10

<400> 35072

cgcctgtgaa agttcggagc cgccttcccg ttgcgcctccc tctccgcctc ccgtgcccac 60
 ggccaatagt tttcaagtgg caatggcgga ccaggctaac caaccactg tccttcataa 120
 gctcgggtggc cagttccacc tgcgctcgat catctctgaa ggtgtacggg cccgtaacat 180
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 gctctgtgct aatgctcctg ctgagaaagg aggcaagaac ttcattgattg atttcatgat 360
 gggcggtggt tcagctgctg tttcaaagac tgctgctgct cccatcgagc gtgtgaagct 420
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<210> 35073

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E11

<400> 35073

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 cccccgccga ggccgaggcc gaggccgagg ctgctgctcc tgctgatccc gaggagcttc 180
 ccgcggccga gcagcaggca gccgccgagg cggaggccgc ggctcctgct ggtgccgagg 240
 agcccgtcgc ggccgaaccg gccgccgagg cggaggctgc tgctcctgct ggtcccagg 300
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ctggtgccga ggagcc

376

<210> 35074

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E12

<400> 35074

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gttagggagg tttttccacc aaaagtctt aatttcaaaa cctttgaaga ggcaatcaaa 120

gggccaggag aatttctcat gagtgatttc ttcaagttcg accgccacc tttgtgcat 180

ttggcctttc aagctttgga caagtttatg actgaattga cacgatttcc tattgctggg 240

tcaacttatg atgtt 255

<210> 35075

<211> 396

<212> DNA

<213> Zea mays

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<400> 35075

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agacggaatc tatgcgggtt aggcgtgcac ccatatcctc aaccacccta gctgggctca 120

gctttcttct atgcactact ttgatccctg gtcgttactg ttacttgagg tggttttgat 180

ttgtttgggt gtggctgtgt tcttttgctc ctggtgcatt tgcaatcttc tgacctgtga 240

ggggcggtgt gtttgtatta cattcttctt aatgcaatga tgtgcatttc tcccgtgtat 300

ttgagaaaaa agtataaata agatgggaaa taagatacct ttttttgta tctttcccaa 360

aagttttttt ttctgagaa acggaatagc tgtatt 396

<210> 35076

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E3

<400> 35076

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gcacctgtta agaacttttt tggactgatg tcttttgcac ttgtcgtact tgggatctat 120

tggttttatc agtatatgaa gtcctggaga gaggttcttc cacttcagaa ctgtattact 180

cttgtgatta cactgggcat gtttgagatg gcattgtggc attttgagta tgctgaattt 240

aatgagactg gagtacggcc aaaaggcatc acattttggg ctgtcacgtt tgcgactgtc 300

aagaggactg ctgcttgaat tattgttctg attgtctc 338

<210> 35077

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E4

<400> 35077

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atgggcaccg gtgcaggcta gaacgccaac atactacaac ccttgcatcg cagccgtact 120

gggccaagc cagcctagcc ccaatctgaa tcttgctgca gttggcctaa cagcatgatc 180

taatggagga ctagaaggtc cagaccgtat ttttgtgggt ggcctcccgat attacttcac 240

tgaagcgcaa gttcgggagt tgcttgaatc attcggtcct cttcgagggt ttgatcttgt 300

gaaggatagg gaaactggta actcagaagg ctatgcattc tgtgtttacc aggacctcac 360

cgtcactgac atcgtttgtg ctgcactaaa tggatatcaag atg 403

<210> 35078

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E7

<400> 35078

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acgccgctgg ctttgccgga ggtggctgag gcaatggata ccgcagccgc aggagcagca 120

gcaactatta tgaggggaga aggaggacga gcaactacca gtcaagtgtt tctaacaatt 180

ttgctggtgc tgccccaact ggtgttggag ctgacggtaa caccaagagc agcagcagtg 240
gatatggagg atgggatgag cttctggaca acgacactgc tgctcaggag acaaagagga 300
ggagctcatt ctgagctggc accactgata aaagcacaaa atcgagcct tcagcgactg 360
gggaggaaga tgcagattat actgccactc ctttaacaag aacgagaatg agacgacggc 420
ggacg 425

<210> 35079
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E8

<400> 35079

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aagtttgctg atgacgcagc atcaggccag tgtgctgccc ttatcccgtg atctgccgag 180
agttgctcct gctatcgtgt tatgtgtgtc tgttctgaag tattgtgtgg ttacaacac 240
ctgatgttgt aagagttgtt aattcccctg cattgctacc gggttattga gaataattat 300
ggctgtttac gttgttgctt c 321

<210> 35080
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-E9

<400> 35080

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ggctcatcgt ggaccagcc tctggtctgc caaccgcgct gtcacagct gcggcggcgg 120
caacggccgt gtccggcggc agcaccacgg agaaccat cctcacggcg ctgttcaagg 180
agatggtacg cgcgatgctg agcgtcgtcg gcagcggcgg tggcaccacg gcacttcagg 240
ggctggagcc accgccccct atcgcggggg tgccgatgga aggggagaag tggcggcagc 300
agcggatccg ggagctggag gtgtacctgc gtcggatgga cctgctgcag gaccaggcca 360

gggcggcgct ggaggaactc aggtccgcgc cgcacgccgg gggcatgaac acttgattgt 420
cttgggttca gca 433

<210> 35081
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F10

<400> 35081

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ggaagctcgc gctggcgctc ctgctcctgc tggccgtggc ggcgtccgcg tcggccagca 120
gcagcagcca cctggatctc gacctgcgct ccctgtgctc tggagaccgt cggagggagt 180
gccgcggggac ggtggccgag tgcctcgccg aggagtcgga tgaggaggc cttgacctgc 240
ccggatccca ccgccgcgcg ctctacggcg gcgggtacat cagctacggc gcgctgcggc 300
gggacaacgt gccctgctcc cgccgcggcg ccagctacta caactgccag cccggcggcc 360
aggccaaccc ctaccaccgc ggatgctccc gcatcacccg ctgccgcggc tgacgcggct 420
acggatcc 428

<210> 35082
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F11

<400> 35082

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gtgagatctc tctagcgctc cttgtcctgc ttgacttgcc ttactcagca tcatccaaga 120
ccactagcca cctagatctc tacctgagct tcctatctc tggagaccga ccgacatagt 180
gccccaatc gaaagactat tgccttagag acaaatcaga ttacgagagc cttgtcctga 240
cctgatccca ccgtcgtag ctatacagcc tcgagtacat caactactgc gcgcttcaac 300
ggaacaacgt gccctgctcc caaacggatc cagctactac aactgtcacc ccggcggcca 360
gaccaacccc taccactcga gaatgctccc gcatcacccg atgcc 405

<210> 35083
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F12

<400> 35083

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 gcgctcgctc aactcccccg ccaagcgaga ttccgacacc ttgcggcggt tgtccccctt 180
 cctcctgtcc ccctccaccc gcggcagccg cggcggcggc ggcggggacg acgacggcaa 240
 ggacgctcac cgctcgctcc ctctcctctc gcatcaccac cacaagcgtg tccacctgct 300
 gacgtccccg ttccgctccc tcctcgcaact cgaggacccc aggtcctccg tcgactcgtc 360
 ctctaccgg atcctgcttg ctctcctcgc gctccttctc gccgctgtga tcttctgcgc 420
 gcccttggtc tggctc 436

<210> 35084
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D6

<400> 35084

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 tgggtcccaga tacgtcatg attggcatgg agctcaggga caaggtaacg gagtatgtga 120
 aggagaggat tttagctcta agagcggcaa acccaggaca gtatgataac atatccgttg 180
 tccgcacgaa ctgatgaaa tacattccaa attacttcag aaaggctcag ctcaccaaga 240
 tgttcttcct gttccccgat cccacttca aggagaagaa ccacaggagg agggttatca 300
 gcatgcagct gttagacgag tatgcttacg tgatggaagt gggaggaatc atatatacca 360
 tcaactgatgt cgaggagctc ggagagtgga tgctgtcgtg tctagagaaa caccggttat 420
 tcgaaaccgt tcctgaagaa gagatt 446

<210> 35085

<211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-C10

 <400> 35085

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 aagccctcag atgaaaagtg cattttgccc aaatatatatt catcagacgg ctgttcatgc 180
 tcaaaatcct cctcatgcaa gaccaacaaa tgcgagtgc gaggctcagg tgcacaatgc 240
 ggtgcaggct gtggttgtaa ggattccaaa tgttctaaca gggattcttc tatagaaaaa 300
 gccaatcagg gagccatgct tcttcagaac gcgttttctg agaaggattc ccaagatgca 360
 tagccaagga agcctttgat taacattggt aataatatgg ttaaccaaac tgccgagaca 420
 aa 422

<210> 35086
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-C11

 <400> 35086

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 ggagaagacg accgcaggta agaagcccaa gtccgagaag cgcttgcccg cctcgaagtc 180
 ctccggcaag gagggcgggc agaagaaggg gaagaagaag gccaagaaga gcgtggagac 240
 ctacaaaatc tacatcttca aggtcctgaa gcagggtcac cccgacatcg gcatctcctc 300
 caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tcgccggcga 360
 ggccgctaag ctgcccgggt ccaacatgaa gccca 395

<210> 35087
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C12

<400> 35087

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ggactccgtc ggtgccgccg ctagcacggc agctggcgcc ggcgcccccg ccgcggttgg 120
ggcggtctgc gcgctcggcg gcagcatcct ggaatcggtc accgtggcat gccccgacca 180
cctcgtgata gcggacctcc ccgtcgcgaa gagcctcggc gccgtcacgg cctccgctgc 240
cgccgccacg cgcgccatcg gccgtcgtc ccgtcgtccg ctcgngagc gcgtncacat 300
ctgttccccg tgcgagttcc ccatcgccat ctacgggcgn ctcatccctt gtgaacatgc 360
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<210> 35088
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C2

<400> 35088

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gcaaggttcc gcttctctca tggccgacgc caccgacgcc ctctcagctc ggagcaaggt 120
gcacgctttc ctggaggctg cgcgcgccgg cgacctcaa tccctcaaga acctcgtcgc 180
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catcggcgag ctcggcctnc ctgtcgaccc aaaagacgat gatggcaaaa cttcgttcat 360
ncatg 365

<210> 35089
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-C4

<400> 35089

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 gagaggagag gaggggaggg gatcggctcc aagggaacag gtgagatggc aatcctgtac 180
 gcgctggtgg cgcgccggcac ggtggtgctg gcggagcaca gcgcggcagc caccaacgcg 240
 ggcgctatcg cgcgccaggt cctcgagcgc ctncgccagc gcggcgccga cagccacgtc 300
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<210> 35090

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C5

<400> 35090

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 ttgccaccgt cgtgtacctc gcctgggcat acacgccga gccgctcctc cagtcaactcg 180
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 cttccttcag tactatcttc gatgaaaaga gtagggagca cacagccttt tttcctgcaa 360
 ctgaagatga aaggcccatc gaaccatct cagacatcgg tattgatcgg atcaaacctc 420
 ttatgtttgg tgatagatga tt 442

<210> 35091

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C6

<400> 35091

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 ccgttctacg acaagaagga cgccgccaag ctctccgcgc aggccgcagc cctagctgct 180

gtcccgcctcc cgggtccgcgg tcccccgctcg tgccaggatg ccggcacctc ccgcgcagct 240
 agctcggcct cggctatgga tgtggagatg tctgggtgcaa ggaacagcag gtctaagacc 300
 tttctgaagc cacttggcag cattag 326

<210> 35092
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-009-Q1-K1-C9
 <400> 35092

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 catagtgtac tggttcatag tgggtggagtt catggaggac actattatgc ctttattcgt 180
 ccgaagctgt ctgatcaatg gtacaagttc gaggatgaac gaggactaa agaagacatg 240
 aaacgagcat tgtaggaaca atatggtggt gaag 274

<210> 35093
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-009-Q1-K1-D1
 <400> 35093

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 aagactccct aacggacgcc catttccctc actattcaac tttaagcagg aactatcaaa 180
 cgcaccaccg gagcttgtca gcaggctatt accagagcat gctcgacggc attcaggatt 240
 cggttcctta tttgggagtg gaccgtagcc cgtatgaaaa tctcgtttta atggtgggct 300
 gctgtacgct gtcagagggc aatctgcata tcctaaatct aagttntaga acctgaccat 360
 cttgttgaaa agttgccagc cttagaaaaa cccgaagtgg cctcttgtgt ccatgctctg 420
 ccagtaacgg cacataatg 439

<210> 35094
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D11

<400> 35094

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cttcacgctc tatgacacca acaagctgct gaagcgccac tcctacaacc agtacgtggt 300
ctcagccatc tcctctacc tggacgtcat caacctcttc atggaccaca tggccatctc 360
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ctcccgctc 429

<210> 35095
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D12

<400> 35095

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gagacttgaa agaactgcac tggcaccac agataccgctc gatgatcata tcaacggcaa 180
ttgatggctt caacgtgttg atgcctagca acattgatac aaccattcct ggcagcactg 240
atgcagcaat gccatctgct gagccacagc actagccaac attgatacaa gcattcctgg 300
cagccctgat gcaatgccat ctgctgagcc atagcactga tgtaagcgtt tcttgtagca 360
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gtgttg 426

<210> 35096

<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D2

<400> 35096

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tggatcgcg t ctaattcttc ttctcattca ttcttttact aattactata atcacatcca 120
ttactaccta actaactccc atttcctcca ctattcaacc ttaatcaata tctatcatac 180
tcaccatcat atctttccat cattctatta ccacatcatt ctctacatca ttttaataacc 240
ccttttctta tt 252

<210> 35097
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D3

<400> 35097

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gcatcactca agcagctatt tcagtcaaag atggctgaac tgagagctga ggctaagcaa 180
caatctgagt ctactggctc aattggacgt gcaaaaggag catctttgac cacatcacca 240
cagcaacaga tatctgttac tgtagtaacg gaatttggtc gctggaatga ggaagccata 300
accagatgca cactactgtt ttctcagcct actactgttg cagctaacgt gagatccata 360
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aagagtttaa atg 433

<210> 35098
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D4

<400> 35098

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 tttgctctct ctgggtttgt ccgtgctcag ggtgacgcag acagctcctt ggacaggctg 300
 tggcaaaaga agaaggctga tatcaagcag tagattttac atctagttta ccaagaattg 360
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<210> 35099

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-C1

<400> 35099

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 agactgctgc ggacgatgaa aggggttggt tgctcggcgc cgttttcgct tggctgtgag 180
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 atgctgacac tcatgaatgg ttgaaagttg agggtgattc agcaaccgtg gggattactg 300
 accatgcca ggatcatttg tgtgacgttg cttttgtgga gctaccacaa gttggcatca 360
 gtgtatccta tggtaagaac tttggtgctg t 391

<210> 35100

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D5

<400> 35100

ccggccgacc cactcgtccg ccactcgtcc gccactcgt cctccactcg tccggccaac 60
 ccctactcgc ggggtgctg cgccatcacc cagtgcagg gctgatgcct gcctgatgat 120
 ttccgttccg tttcgtcccc agctattagt cgggtcttca atttaaagaa gaagacatgc 180

atgggagcgat gtcgctgctt ttgctgtgcg ctatagcctt tctcgccgc ctgaggcacg 240
catgactcgt ccgctcgatta ttgtgctgca gtggacatgt gtatgtgctc ctgtttctag 300
catatccccct tgctttcagg aagaaagtga aagtaattat atatatgatg atcgtgtaat 360
aattttcgtc tacgaggag aatgaccttg tcatgcagaa aagatcaatt caagtggctc 420
agcgttcgga ttaaa 435

<210> 35101
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A3

<400> 35101

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cctttggtgg ggaagaaagt ggttatgtag tgatcacagt ccaagttcaa taggtatgga 120
gcatttgata agacagcaga tacacgtacc agtgcattca tggcaccagc cttcttgtga 180
tggttataac ctggccttcc cgatcccga cctcttcctt tgcaagaacc ttgtgacacg 240
tgaaggcagc gcctgggtgt acagtccctga ctccaaagcg ttgagggaaa agctcaggct 300
tccagtcggg tcctgtgagc ttgccgttcc actcaaagcc aaatcgaggc ttttctcggt 360
agatcgacga agagaagcgt acgcgacgat actgcattca gcgagcgaat acgtttgcgg 420
cgcaatctcg gcagcgc 437

<210> 35102
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A4

<400> 35102

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atttctaaac ttcggcaccg tcatttggtc agcatcattg gtcattgcat tgtcagtgat 120
gaggagaatc ctaatatcgc cagctcggtta tacctagttt ctgaatgcga gacaaatgga 180
tctttaagaa gtcaccttac tgagtggagg aagcgtgaaa tgctcaaagc gccccaacgg 240

gtttgcgctg tcattggcat tgcgagaggg gttcagcttc tgcataatct gactgctcct 300
 gggatcgtac agaacaatct caacatagaa catatcctgc tagacaagac cctcacgtct 360
 aagatcagca actttagtct ttcaatgatt caac 394

<210> 35103
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-009-Q1-K1-A6
 <400> 35103

gcgcggggcgc gtgggcggac gcgtggtcgg actcgtgggc ggacgcgtgg gacctcggtc 60
 gcgcagccct caccagcat ggtgctccag ctccactgcg ccacaccgac catcaccatc 120
 tctccgcctc ccgccgccc tcgtcactac cccaccacc tctacggcgc cagcggagcg 180
 ctcccggccc cagctcgcgg cctcgggcaa ctccccgcc tctcctcgt cggcgtcaga 240
 gaccgcgcgc cggacggagc ggtctgccac gtgaggagc aggtgcggtg cgacaggaa 300
 gacgaggagg aggaggacgg cgaggagtgg ggccacaacg aggacgtcg gaggattgaa 360
 cggtacagcg aggacccccg cgaccaggcg 390

<210> 35104
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-009-Q1-K1-A7
 <400> 35104

accactcgt gcgatcatc acaacacagc ctctcgtatt gcttaattca ttaagatttc 60
 acaaatggaa acggccagct gttactttca agagaagaaa gcaatgcaca aggcaatagt 120
 taccttgaca gccggtggga accctccatc agtgacagta ataatggtga gcataatcat 180
 ccataggcag gtctgcaaac tatcctggag aattcagaag atttaccgtc accatcaggg 240
 agaacacaac ctgccgtttt cccacgtggc caaagctctg gacaaagaat tatgggcaat 300
 atgatggata atattttggc cagaagtctt acgtccaaat caaatggtca aacagatgat 360
 attgctccac cctcacctgt gaaggccct gatgatgagg ctgacaaggc tgaagatgaa 420

gaaagcccta tgatggaaac tgtcangagc aaatgtatta cac

463

<210> 35105

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A9

<400> 35105

gcgtgcgccc acgcgtccgt cgacgcgtcc ttccacgctt ccggattttt ttaggcgggt 60
ggggggcctgc ctgtctccac tggaagctcc ggattacgta ggaaaggggc gggcggcatg 120
aggatccagt gcgacgcgtg cgaggccgcg gcggccacgg tgggtgtgctg cgccgacgag 180
gcggcgctgt gcgcgcgctg cgacgtggag atccacgccg tcaacaagct cgccagcaag 240
caccagcggc tcccgctcgg cgacgccgcg gcgctccccg ccagcctccc gcgctgcgac 300
gtgtgccagg agaggccggc cttcatcttc tgcgtcgagg acagggcgct cctctgccgc 360
gactgcgacg agcccatcca cgtccccggc acgctctccg gcaaccacca gcgctacctc 420
gccaccggca tccgcgtcgg cttcagctcc gtc 453

<210> 35106

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B1

<400> 35106

cccggtcaga gaaccagcc gccgtcgc at tggccttcca ggtaagcagt aacgttcacg 60
gtatcggtcg tcatgaagcg caacccccgc gtcacgagct cccgccggaa gtgccgcaag 120
gcgcacttca cggccccgct ctacgtccgc cgagtgtca tgtccgcggc gctatcgacg 180
gagctccgcc acaagtacaa tgtgcgttcc atcccgatcc gcaaggacga cgaggtgcac 240
gtcgtgcgcg gcacctacaa tggccgtgag ggcaaagtgg tgcacgtgta ccgccgtcgc 300
tggtcatcc acgttgagcg gatcaccgcg gagaaggtga acggctccac cgtgaacgtg 360
ggcatacacc cttccaaggt catggttaca aagctgaagc ttgacaa 407

<210> 35107
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-B10

 <400> 35107

 atccagctca ctctccactg gtcgtttact cttgcagctc cacccttcac tcagtgttag 60
 tgtgttatta gctataggct ctagctatcc ggcgcactcc ttcgtgtatc catcagcctt 120
 ctcatcgcca ccaatggcca ctgtcgaggt ccagaccccg accgtcttgg cctccgatga 180
 agctcccgtc gtggagacct cgccgtcagc cgtcgtgccc gaggagtctg cccccgccta 240
 agccgatgcc gaagccgaag ctgctgctcc tgctgatccc gacgagctt 289

<210> 35108
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-B11

 <400> 35108

 gcgctccact catcttttcg cgttttagtac ctttaaaatt tccccactc gccagtcgca 60
 gcaggacctg tagccatgga cgccagcgga gccggtagca aggggaagaa ggggtgcggcc 120
 gggcgcaagg caggcgggccc caggaagaag tcggtgacgc ggtccgtcaa ggccgggctg 180
 cagttccccg tcggccggat cgggcgctac ctgaagaagg gccggtacgc gcagctcgtg 240
 ggcactggct cccccgtcta cctcgccgtc gtcttgaggt acctcgccgt cgaggttctg 300
 gagttggcag ggaacgcggc gaaagacaac aagatgacgc gcatcattcc gcgccacgtg 360
 ctctggcgga tccgtaacga cgaggagctc gggaagctgc tggcaggcgt caccatcgcg 420
 cac 423

<210> 35109
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-B2

 <400> 35109

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 agggtcaggg caagtttcca tgtttctatg tttattacca ggaaaataaa cagtccacac 120
 gaccatgcat cggagtggta aacctgaact ggtttttgcc tgttcagcgg aagctcaaat 180
 ggcagaatcg caacaacagt agcatcggca gctcaaaaga acccgcggtg aagctcaaat 240
 ggcccgttcg gttgctgttg atgaggaagg aaggaagagt gccgtgcacc aattcgctcc 300
 gagcaagaat caaatgtcat cgtaacttaa aacagattgt tcacat 346

<210> 35110

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B4

<400> 35110

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 ggctgggtcg cttactccc agagcagccg ggaggaggcc ttcattggaca tgggccggtg 120
 agactgatgc ggacgatgag aggggttggg tgctcggcgc cgtttacgct cggcggtgag 180
 ctggtggcct cgtttcgtcc ttaccagag ccttctccac cgtgctgaac gatctgaagt 240
 atgctgacac tcatgaatgg gtgaaagttg agggtgattc atcaaccgat gtgattactg 300
 accatg 306

<210> 35111

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B5

<400> 35111

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 ttagtgactc taaaggaaca gattttaaat acagccttta tgggtgccta gtccatacag 120
 gttggagcac tcaatcaggc cattactatt gctacgttcg tacatccagc gggatgtggc 180
 acaatcttga tgataaagag gtgcgccaag ttcgtgaagc agacgtattg aagcagaagg 240
 cttatatgtt attttatgta cgtaacagta ttgggaagtc ggtggtgtgc aaagataata 300

atgctgctaa tttgctcaag aagaaaaacct ctgaaaaaat ctcaagtttg aatggtattg 360
 cacaaaccaa tgtaagagca caaaatttga atggtgtgtc tccatttggg gataagacgc 420
 acggcacaaat cattggctac tctacaattt 450

<210> 35112
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B7

<400> 35112

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 tggatctcct aggtctgac tccagcttct gagaatggga cctgatggcc acattgcgtc 120
 tatcttcctt ggccacccta ttgttaacga caaagagagg cgggtcacat acattaagga 180
 ttctccaaag ccacctccag agagaattac attcacgttt acagtaatca actcatccgc 240
 atacgttgcg atggctgtga ctggagctgg aaaggccgca gcggtgcaca aggcgctctc 300
 atacaagcaa acctcgtcag acctgctgcc tgttgagatg gctgtgctgc aagatggaga 360
 cttcacctgg ttcactgata acgcagtagt gtccttgctg cagaacatgt atagtcc 417

<210> 35113
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B8

<400> 35113

cccggcccg cccactcgtg cgcccgtcgt ttctcccact cgtcctcaca ctcttcatcc 60
 aacgcgacca atcgagggat cgctctaatt gaaccgagct cgagccccag acaatggaac 120
 cagataccca cacaacatcc atctaccag gccaaaccaat gggcaactac aaaacaagac 180
 tcaccacata cattaacgac cctccaaatc acccatcaga cacaatacaa tcacctacac 240
 acaaacaaca cataccaat 259

<210> 35114
 <211> 372

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-B9

 <400> 35114

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 tgggggtgtaa attagaacat aaaaatgttg taatTTTTgt tttcttgCCT acaaattccc 120
 acttgatttc ttatctgggg tttggctacc gtatatTTgt attcgaatgt aacgcacttg 180
 tgtatTTTTg tttttgggTT tattacattc aacaaggTca gaactgtatc gtagaaaaaa 240
 aaaaaaataa actataaata aatTTTTTTT ttttactaaa aaacaatata tctaaaaact 300
 tacattagcc acatttctat atTTTTTTta aaaaattaca atcttaattt caatattaaa 360
 taaatactta at 372

<210> 35115
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-009-Q1-K1-A2

 <400> 35115

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 tatgctgagg taagatggTg tgcattccggc aggcgaccat cgaagacctg ctggcgatgc 120
 atgcgtgcaa cctgatgtgc ctgccggaga actaccagat gaagtactac ttctaccaca 180
 tgctctcgtg gccgcagctc ctcttcgtcg ccgaggacta cggaggcagc atcgtcggct 240
 acgtgctcgc caagatggag gaggaccctt ccgagccctg ccacggccac atcacctccc 300
 tcgcgggtcct tcgctcccac cgcaagctcg ggctcgccac taagctcatg 350

<210> 35116
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-F8

 <400> 35116

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ttgtgtccccg cgtcctgcct tgctcgtcct cctcattcca gcagcaacta caactactac 120
 tgcgactggt gccctcgccg ttccaccgcc tcccccgacc tcgacgcgtc gttgctgctg 180
 tcttgtggaa ctagtagaga cggcgacgac ggtggcttct gctgcgggta cgggtacggg 240
 gctgcggagc agctggacgg aagtggagct ccccaagtcg ccgtcgcggg cgccgactcc 300
 ttcttccgcy cgggcgcggg ctgctgcgcc tgctaccagt tgaggtgcaa ag 352

<210> 35117
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G10

<400> 35117

aagggacgca ggcaacaatg atttgcacag tagcatctgc aggctgtggg ccgttcctcc 60
 gggaatggca cctacactgg tgggaccggg actcgcttgt ttattctaata cctgtgagat 120
 cttcacgctg gaccagctgg tctgtcacgt ctgtctgcat ccagtgtagt cccatgtggg 180
 tagcatcagc atcttcttgt gcatcacaca cccatgctac cccctagtag tgctgtgcat 240
 atcatgggtca tggaggagca gctacctata tgggctggta atagtcacta ctactaatta 300
 atgctaaatg catcatgtaa cgcaacgtaa taggagagca agcgctataa tctgatgctt 360
 gctgctgcca tctgctgacc tttggtttca tggg 394

<210> 35118
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G11

<400> 35118

cccacgcgtc cggaagcccc tcaagttcga cttggcatcg gcttaagggtt gggagtgttc 60
 acggtggaga tgaggactac cttcctctgg ctctgctgtt acctgcaagc attgctgctg 120
 ctggatgtgt gtgtttgata agtgactggc tgctgctcca tagaagatga acggagagaa 180
 ggatgatgaa gaagggtttt ggcaatcgcc gctgcaactg caacccatgc catgccggct 240
 tagtgattgg gtataatttg gcttggcagc agccagcatt attatgtgct gatcttttat 300

ctttactagt ttggtcgtcc gatatctttc tttctttctc ccccccccc cccctttcga 360
 ctctgtactg aaactgctga gagattcgca gtattgggtgg atcgtattcg tatgctactg 420
 tt 422

<210> 35119
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-008-Q1-K1-G12
 <400> 35119

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 aaaagcaggt ctgggacagt gggaccggca tttctgtcac tggaagcgag caacagcagg 120
 aagctgctaa tgggaagccc aatccgtctg caccagcacc aaacgggtgtc cctgcagagg 180
 tgaaggcagc gaaggcttct gcagagaacg gcaccgtcac tccagctatt tcctacgcgg 240
 caaatgtggg ccaagcagca tcagagaaac ccgttctcgc caacggag 288

<210> 35120
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-008-Q1-K1-G2
 <400> 35120

ctcgagtccg gccacaccaa gtgcatctct gactatatca aggttaacgc catggccgtg 60
 cgcgagtacc acatcgtcag ccccgacccc aacttccccg atgccagct ccccgaaatcg 120
 caccgcatct cctcagggg gacgtcgccg tacgggaaca gcatgcacta cgcggagaac 180
 gtgcagtcgg gccacttcgc cttcacggcg gcggaggccg gcgactacct ggctgtcttc 240
 tgggcgcccc accataagcc accggtcacc atcgggttcg agttcgactg gaggagcggc 300
 gtctccgcca aggactatcc cagcgtcgcc aagagggcaa ggtcgatatg atggaattgg 360
 agctgaaaaa gctagaggaa actataaaaa tatacatgaa gagatgttt 409

<210> 35121
 <211> 300

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G5

<400> 35121

cccacgcgtc cgggaggata caatggacgt ttcagcaatg aggtttatac acttagcctc 60
 gaatcagatt ttaagtccac cacaaaagaa gaaactgtct cagatctagg gtcgtcgaac 120
 cagaggttga aatgggtgatt ggcgtggaca gtgctgattc agacctgaag aacagtagta 180
 cagtactgat gaagcaagtg aacagttctt agcagctctc aaagctgaga aagaggaact 240
 agaagcgaca cttaacacgg aacagcttga aaactgtaca acttaaggaa tacattgctc 300

<210> 35122
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G6

<400> 35122

gcgccggcct tttttttttt tttcttttga attttggaca ttttctctct cgttgcggtat 60
 gggttcaatt aataaatagc tgtacatgct tgcctcggac catagctgca gaagcaactt 120
 gttctaagtt aaacttgctt cgttgcttgt acttgacaca tttgctgaaa catatataca 180
 caacctctcc caccatgaga acagagcttc ctcaggtata acttcccttc ctcattcattt 240
 ctacaaaactc ttctgtagtcg attctcccat ccttgtcttt atcaacttcg tccagca 297

<210> 35123
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G7

<400> 35123

cccacgcgtc cgcccacgct ccggaccac tctttcgagg acgcgtgggc ggcgtgcttg 60
 ggatctcaac ccaagtcgtg cctccgctcc ggtcacccgt cgctccacgc aacctgctcg 120
 aggaggaaga ccagggagcc caaggaggag aacgtcacc ttggaccac tgtccgtgaa 180
 ggagagtatg tctttggtgt cgctcacatc tttgcacct tcaatgacac cttcattcat 240

atcactgatt tgtctgtgag ggaaactctg ggtcggatca cccgtggcat g 291

<210> 35124
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G8

<400> 35124

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ggagatgatg gtgcgcaagg cgaaggttga gttcgacgag cagtcgccgg ataacttcga 120
cccgaagaac ccgtatgccg acccgggtggc gatgctcgag taccgggaac acctggtgcg 180
agagaagtgg atccagatcg agaccgcca gatcattcgg gagcgccctcc gctggtgcta 240
ccgcatcgag ggcatcaacc accaccagaa gtgccgtcac ctcgtcgacc aataacctata 300
ggctacccgc ggcttgggtt ggggcaagga tgctccgccg cctgaacttc acgagcccaa 360
gaagaccgtc aaggctgagt agcggcgctg gtgccttgct tctcgtgctg ctgttcctgg 420
attggacagg tgatctgacc ctttcattga 450

<210> 35125
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-G9

<400> 35125

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tggagcetta caacagcgtc ctctccactc actcactcct ggagcacact gatgtctcta 120
tcctgctoga caacgaggcc atctatgaca tctgcaggcg ctccctcgac attgagaggg 180
ccaactactc caacctgaat cgccttgtgt ctcaggtgat ctcatctctg actgcttccc 240
tgaggttoga tgggtgccctc aatgtggatg tgaacgagtt ccagaccaac ctggttcctt 300
accgaagat ccacttcatg ctctcctcct acgcaccggg gatctcttct gcgaaggcct 360
ttcacgaaca gctgtctgtg gcggagatca ccagcagcgc gttcgaaccg gcttccatga 420
tgggtcaaatg 430

<210> 35126
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-H11

 <400> 35126

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 aaaagaacac gggtttaaaaa aatcctggcc cactcaaaac taccaaacct tactttccct 120
 agcatacaac ttcatacctt attctataat ctcacctaaa ttcaacacac tgtcacacgt 180
 ttaacacctt caaaaccgta aaaacaccca ccttacccaa cttaatcacc ttgcaacata 240
 ttccattttc acaaatttcc ataataccaa aaaatcccac acttaccaac 290

<210> 35127
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-H2

 <400> 35127

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 cttggctcca agaacagcat aagtacctcc cttctggctg gcgccgtgtt ccatcaagta 120
 tacatgttcc acaaggagat tcttctggac tacgtgcacc atgatatcac cagaaagtgg 180
 gctttgatgtt acttcaagct gcttttgctg gtgatggcta aggacaccat catgtacttc 240
 aatctgtt 248

<210> 35128
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-H3

 <400> 35128

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 gagtactgac ctaaggatatg ccatacttaa cgtacttcca aaatcttcgg gttgatcctt 120

aaccagctgg tttagctctg gacgatatgc catggcaaac catttcataa gaaactaatt 180
ccaatttgac tcttaaagat gaaactgaag aagtaaaata gggtcatgga ctccgagggg 240
tcaaagctat cattcgcttc cttgcaaagt tttatggatc ttatagact 289

<210> 35129

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H4

<400> 35129

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<210> 35130

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H6

<400> 35130

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agcgccggac aggccttcctt gctgtggtat atctcgtaa ggggagattg gggatgattt 120
aggcctatctt gtaagcatcc ctctatcgga ttgcgaagct taccttgctg tgggtggtgtg 180
ttaaagtgagt tgcacacatg tgtcgagtct gagaatacat attaccatca tcaatgatat 240
aagtaataata gaataagcat gagtgtaaaa aacaatgtat atattcatta atctcttgcg 300
tgtgttggtg ttttcagca 319

<210> 35131

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H8

<400> 35131

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ccctatcctt ggattaagac atgttcttct ggtagtgaga tgccttctga tcgaaccatt 120

tgctgaatct gactttaatg aacaagctgg gaagatgcta ctcgaaaatt atgaggaata 180
 tgcaccgcat gcaaggttat acactggcat ccatgccctc 220

<210> 35132
 <211> 126
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F7

<400> 35132

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 gtttatttta acatgaatct atccacattt tcttagcaca taaattacat aatcattata 120
 cacaaa 126

<210> 35133
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-H9

<400> 35133

aaaaagaaaa aaaaaaaaaat aaaaaaaaca attttaaata caaacaaaaa aaaaaaaaga 60
 acaagaccgg gtt 73

<210> 35134
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A10

<400> 35134

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 gcccgcgag tgtcgctgcc gctgcccccc tctctctgct gctgctcgcc gccgccgag 180
 ctgggctcgt gtccgcccgc tgcctgcag ccagcgactt cgtccgcaag tcgtgccgca 240
 cgactcagta cccgtcagtg tgcgagcata gcctggcgctc gtacggctgg tcgccgtcgc 300

cgcgagagccc gcggtagctg gcgcgcgccg agctgtcggt gagcgcgtag cgcgcgcgcg 360
ccgagtcggc gtacgtgggc cgtctgttct gcgccagcaa cggcaaatg 409

<210> 35135
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-A11

<400> 35135

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catggaagga atgaactctg caatagctct gtatctacat caattctgat tccgcatctt 120
caaaaccttg cgaagcaaac tgcactccag caagatctga ttacgaacct actaagtagc 180
ttgcaacaaa atgagagagt cgatgcagct cagtcatcaa gagttcagag caccagcagt 240
gatacagtgg ttgaagctgc tactgctgac agagaacact cgttacttgt taaaattttt 300
gagttacaat ctaggatgat ctctttgact gacgaattaa ttgcggcaaa gctganacat 360
gttcagctgc aggaagagct aaatgtactc tactgccaaag aagaaatctg atttgagaga 420
ggacgagaac gaagaagcat gatgc 445

<210> 35136
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-009-Q1-K1-A12

<400> 35136

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tggcagtcctc attgttcatg tccgtcctgg tgaaaatgct ctctctgatg tcctcctaag 120
cactcctata tttactgggtg aagaagggtg aagtggtttt gctgcttctg cagcagctgc 180
cgtagctact ggagcatctg gatttgaatt tgggtgtggac ccaaatgtag atccagagtt 240
ggcactcgcc ctgcggttgt ctatggaaga agaacgagca acgcaagagg ctattgcaaa 300
aaaggctgca gatgatacat ctaataccga aaatatcaat gcctcaagct caaacagcga 360

ttctgttatg gctgaagcag aacttgctc anatgctgct gctggtgaca agcaagaaca 420
gcca 424

<210> 35137
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E10

<400> 35137

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gagatctgga agttggctga aattttcaca actggagttg tccttggtgg atatcaggca 120
atgatgactg tcattctctt ttgggctgca tacaagacaa actttttccc aaaaatattt 180
catgtggaaa gccttgagaa gacagctcaa gatgatttcc aaaagcttgc atctgctgtt 240
tacctgcaag ttagcaccat cagccaggcc ctcatcttcg tgacaaggtc ccggagctgg 300
tcatttgcg agcgcccagg gtttctattg gtctttgctt tcttggttgc gcagctgatt 360
gccacactga ttgctgtgta cgccgactgg gcgttcactt cgatcaaaag cattgggtgg 420
ggctgggctg gca 433

<210> 35138
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E11

<400> 35138

cccacgcgtc cgcccacgct tccgggccga ttccggtttg aaaaccaagc cgttgaaaac 60
ggggaggggg ctgttgaaga aaaccttaac aattaagcca aagccgaagg ccctaccaac 120
cttgccctcg gggttctaca acgccttcgt cctgagggga atccgcgtcg tccaggccct 180
ccagcccgga acactcctct gccact 206

<210> 35139
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E12

<400> 35139

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ggccttttgca gtatgtgggg attgaagtat ggcaggtcaa agctgggttca gttttttgaca 120
acatttttgat ttgcgatgac ccagactatg caagacatgt tgtagatgaa actttttgctg 180
caaataagga ggctgaaaag gaggcctttg aaggagctga aaagaagagg aaggctagag 240
aagaagagga agcacggagg gcacgggagg aaggggagag acgaatgcgg gagagggata 300
gggaccgcgg cagggaccga tacaaggata gatataagcg tcatatgcac tacgactacc 360
atgacgagct atagatcctg tattcttttg aaatctgcac gatattggat gtctgtctac 420
ggagagcgca cg 432

<210> 35140

<211> 343

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-E2

<400> 35140

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cgtgaggctg acggttgtgc tggtagtccg caaggaaccg gatttggacg cgtctctcct 120
tggcactaag tttggcttca aaaggataa gtcataaat ctctgagac agtacttcag 180
caactgcacg atcaactgag tacacgttct tttttcacag tcagggtggc aaagaaatgg 240
cttgaatfff agaatgagac ggcattgggca atatggtgaa gcggatatta actccatggt 300
cgttgcgagt tgcatacta ccaggcacia caaagggttc aga 343

<210> 35141

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E3

<400> 35141

gacctgttca aggccgctgc ggtcgactgt tccgtttccc tcttttgcaa ggtgcctccg 60
 gcccggttc ctcggaagaa ctccccgaac caattaagga ccttattcct gaataccggt 120
 ccgccgttac caaaccggcc cc 142

<210> 35142
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-008-Q1-K1-E4

<400> 35142

cccacgcgtg cgccgtcaca actcacaact cgagttcccc aaacccgaag cagcacgagc 60
 gccggtgacc ttgctccggc tccgatcaag gaaaaggaag atgagctact acggccagca 120
 gcccccgtc ggcgtccgc cgagcaagg ctaccggggg aaggacggct acccgccagc 180
 ggggtaccgc cgggccggct accccccgcc ggcgcagggc taccgctgc agggctacc 240
 gcagcagggt taccacagc agggctacc gccgcagtac gcgcagccgc ctncacagca 300
 gcagcagagc agcgggcctt cttcatgga aagatgcttg gcctgcctct 350

<210> 35143
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E5

<400> 35143

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 gagggatgag gaagaagaga tagatggacg acgtcggcgg tgctgctgct ggtggtggcg 120
 attcaaagca gctcttggtt gaagcagatg ggaacacacg cagccttatt ttgaacaggc 180
 cgaaccagct gaatgtactc tcctctgcaa tgattaaggg actcctgagc tgtttcactg 240
 cttttgtgaa agatgatgga gttaaattgt tgattatgaa cggttctgga agagcatttt 300
 gtgctggagg tgatgttggt gctggtgtcc agtcaataaa taatggatgg aaatggggcg 360
 ctgatttctt ccgagatcaa tattctttaa actacataat tgcaacatgt atcaaacctc 420
 acgtttctct tcttactgga attgtcat 448

<210> 35144
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E6

<400> 35144

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tgttgacctg tgccttgatc gcatcaggaa gcttgccgac aactgcactg gtctccaggg 120
cttcctcgtc ttcaacgctg ttggtggagg aacgggctct ggccttggtt ccctcctcct 180
agagcgctg tctgttgact acggcaagaa atccaagctt gggttcactg tgtacccttc 240
ccccaagtt tctacttcgg tagttgagcc atacaacagt gtactgtcca cccactccct 300
tctcgagcac actgatgtgg ctatactgct ggacaatg 338

<210> 35145
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E7

<400> 35145

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gccaaatgta atcgggtcac atttcattag ctgtagctgg tgcacggca gttgcgggtc 120
ttagcactgc cgtaaatgct gcctcatgtt cttttatttc agatgaggct tattgaattt 180
ttagctacat gtcgtttcta ggggtagctc gattcgatgt agcgaaaaaa agttagatta 240
tgtctatatg catgtgaaat tttagag 267

<210> 35146
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E8

<400> 35146

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gaacaatgga atgaacatgt cagctcgtta tcaattctgc cagaagcaga ccatgttcag 120
acacttggtg ccaccctccg aactggccat gcagttgcag gtgtacaatc tgtgatacct 180
gcagcagaca atacaggatt accagagtgt aggggagaaa tacttggcaa gctaataagg 240
attgggctat tacagctcat cagcagcatg gaggggtgtag aaagggaatc ggttcctgag 300
acctttatgt tgaattgggt gaagctgcgg tctgttcaga gtaagggtca acaagtgatt 360
gtgatagcca caagcatgct ttgtttgcat cacgtgttag cgagtgagaa cccaaagatc 420
actttcttctg 430

<210> 35147
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-008-Q1-K1-E9
<400> 35147

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cggacaggag cacgtacaaa gttatcccg gtaaaaattc ttcattgagtgc tcgactgctg 120
cgggagcggc tacaagactg cagtgcataa tttctagcag aagaacaaga caactttact 180
attgatccat catccttgcc tgatgcatta gatcttctag catcatcaga caatagaata 240
cgcctactcg ttgctgaggc tcaacttcta gcacgagatg atgaacaagg ctcttctgat 300
gggtggcgagc attctgatag tagatcctca ttaactatga gcagtgaaga tgcaaaagtt 360
accgatgaag atactactaa aatgctttct gatctgctca ttgacaatgc gcatctgaga 420
ctacgcctta atgctgtc 438

<210> 35148
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-008-Q1-K1-F1
<400> 35148

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gatggagaat ccaagttgca gatactcaat ggcaattatc gtatccctga gcaaccaag 120

tatagcactg ctgtcacagg gttgatcaaa gatatgctgg aagcctctcc aaattccaga 180
ccagacatca cacaggtctg gtttcgtgtt aatgagctac tgccgcttga gttacaaaaa 240
agtttacctg acggaccttc gccagccgtt tccttgaagt tgcaagatga aggtgctcat 300
aaaagggcac atgttatgcc taaaatgaac ctttcttcat cttcaagaga gcaatctaata 360
agttctctat cgcattgaaa ctcaaaagca agagatgcac ccttaggtgc attttgggca 420
acacaacatg cacaagtg tc 442

<210> 35149
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-008-Q1-K1-F10
<400> 35149

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gggtaaccgt tttttatcct agtcctataa ggctataaca taaggcgcgt gtgtcatctc 120
tagacatgcg tacatcgatg tagtagtata aagagaatta aatatattcc tcagtctttg 180
aactaaaggt gggtatgcct tatatactta tatactggga ctgagggagt atatttctgc 240
agacaatatg ttagctatga tcaaaccctg aatctcatgt ctaattgaaa gcatctctta 300
accaggaaaa ggatgctagg gacattgaaa ttcctaatat cagatgggac gtctttgaac 360
tcatgatgag atttatctat acagggtc 388

<210> 35150
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-008-Q1-K1-F11
<400> 35150

atggagatga tggatctgca tcagacattt gttcatgtgg tgtcattctc tatgttttaa 60
tggtctggta ctttcctttt gaggagaatg accttccaag tttgtatgaa aagataactg 120
cagctaagta ctcatgccc tactgggtct ctccaggagc taagtcattg atccagagat 180
tacttgatcc aaatccaaga actcgtatca ctattggaga aataagagca gacccatggg 240

ttgagaagaa ctatgtagct attagacgcg gtgaagatga gaatgttagc ctggatgatg 300
 ttcaagctgt ttttgacaat attgaggaca agtacgtatc tgaggaatta actcacaagg 360
 atggtgggtcc tcttatgatg aatgcctctg agatgattac gctatcttaa ggtttggatc 420
 tctcaacg 428

<210> 35151
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F12

<400> 35151

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 attgcagcaa ttaatttcat tccagcagtc tttgatgtca caacttggcc aacaacaaac 120
 tggacaggag cggacacaat cagcctctgg tgcaggcaat gtgaacctca acaccttgat 180
 gaacatgttc agtgggcttg gtgctggtgg tggcctaggt gttccaaatg ctctaatgt 240
 gccaccagaa gaactgtatg caacacaatt agctcagctc caagaaatgg gtttttttga 300
 cacacaggag aacatccgag ccttggccgc cactgctgga aatgttcatg ctgcagtgga 360
 gcgacttctt ggaaacatgg gccaatagaa tatgatgacg aacataactg tgttctgatc 420
 catgcatct 430

<210> 35152
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F2

<400> 35152

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 gagggaaatgg ctgcaacggt gtgggaaaag aaatagatta agatagcgct gctattggac 120
 aggactggac caggaaaagc atggatcagt gcactattgc gtacacatag aaggaaactaa 180
 cgattaatat tgaacgtgta gtgaaacgca aaatcacatg ggtatcaaga ggcacgctag 240
 gtgaaacatg tgtgtcaaat ggctgtcttg tcacaaagat acagatgaag aagtgctaac 300

tcactggaga aataactgcg tatgaggaat tcttaatcac cata 344

<210> 35153
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F6

<400> 35153

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gtaaatcaac aagtagatca agagagaaga tctcacaatc aagtttacat cctgattctg 120
aacaaagctc cagatttaat cggatagctt caagagagag atctgcttct gaaaagttca 180
cgaaaaatgc tgogaattat ggccaattaa gctcaatggc atttaatcaa gagcaactat 240
ggttcaatgc aagtgaaggg ataccttggc atgacaagct cgatgggtgaa gatgctttgc 300
aaaagcatgt tcatga 316

<210> 35154
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-E1

<400> 35154

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agtttggggc aatcactgat taccaaggag ctgatcagtg ggggtggtgac cagtggacct 120
ctgatgtgac tgcgcgcctt gttgctccta ctggtgctga ttgggggtgct gctccagctc 180
cggttcctac cggatgatggc tgggatcaag ctggggcccc tgcacctgtg gtggacggca 240
ctgtacctcc tctggttgct cctactggtt gggaccaagc agccccgaca ccgactgccc 300
aaagctggga gtaggcgttg tccactctga gacctgtctt ttgcgggtta aagttcagta 360
tttttctgtg ggctgaatgg tcaaatttcg ggggcatctt ctttagcctt gctttgtttt 420
gctttgaaca cttgtgtttt acgggtttct agctg 455

<210> 35155
<211> 436

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-008-Q1-K1-B8
 <400> 35155

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 cgctaactgt gcctcgctgg tattctggag tctggacgaa gctacagacg caagagtcac 120
 ctgttgatgt tgactaatgt gagtgaacta gacgagactg actttggtat atagtggcct 180
 cgcagtattg aatcagcacc ttctacgtag gacgtacata cagcctgtag ttacctctct 240
 tctgggaaat ccaatggcag gttattagtt tgacccatag cgccacactg atcaggaatc 300
 gattcgtata tagtgaccag cgtgatcaag aactaacacg gatgccgttc tgaatacaat 360
 aatacgtaca acccattcgt gctacctgca atataattgg ataagtcctg ccagtctggt 420
 tcactactgt aacata 436

<210> 35156
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-008-Q1-K1-B9
 <400> 35156

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 ggctcgtgcg aagctaggta gccgccacca tgagccgctc ggggcagcct ccgcatctca 120
 agaagtacat ggacaagaag cttcagatta agctgaatgc aaaccgtgtt gttattggca 180
 cacttcgggg attcgaccag ttcataaata tggatgatga caacactgtg gaggtcaatg 240
 gaaatgacaa gacagatatt ggaatggtgg ttatcatggg aaacagtgtt gtcatgatcg 300
 aggcaactga gccagttgcc aagtcgcagt gaatccttat ttttcagctg atatagtcgc 360
 agcatgaaaa ctgatgtaaa tgctatgagt gaaccctgtt gtacttcgga ctctgctttt 420
 tgcacagcaa cataactcg 439

<210> 35157
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C10

<400> 35157

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cgcgcgcgctc atcttcgccg tacaactaca accacttcaa ggcgtgcatg tcggcggaga 120
tgcagctgtg cgacgtgggc acgcgcttca tcagctggga cggcgtgcac ttcacggagg 180
ccgccaacgc catcgtcgcc gccaaagggtgc tcaccggcga ctactccacg cccagggtca 240
ccatcgccaa actcgtaaac tccacgctgc ccaacgacga ctagctgggt ggccgatcga 300
tcgatcgatc gtcgtcgctg tcattctgat aaacatactg caggctgcag gcttcacga 360
tccatatcca attgtccgta gaaatctacg actagctcat tggagatctg taatgtgggc 420
taagagatg 429

<210> 35158

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-C11

<400> 35158

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gggaactgaa naaggaatgt gttgaggcaa tggagactca actcaagagg gaggagtcc 120
aagatgagga gatgcctgat gtcaggaaac tggacatccg aaacttcctg taggcctgat 180
cgacgataac ctttgaggca ttgcaaatac cccagcccac ctgtgattnt tcttcttttg 240
gttttggttt caagttgatc cgtgctgtaa gctacaccta tgaatgctgc tccttccttt 300
ttttgaataa aaaaaactgc accgaggt 328

<210> 35159

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-C12

<400> 35159

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aaggtggcgc tacatatgca tctgcagcta tggagtangg atttgttcta gccactattg 120
cccttatttt tcaatatgtg gaaaggtgtg agttacaaag gggaaactgc ttccacgaaa 180
gagcccacgt tctctgagag ctcttcagtg atctcaaaac ctgtgccttt taacgccccat 240
atcaaccaga tcattcccga 260

<210> 35160
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C2

<400> 35160

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gttagtgga gccgccgcg gcgccgtggg tgctgatact tctccctcgg aggctgccgc 120
tacaccagcc agagaagatc aacagcacta cgccgccgtc gcgactggcg gagtttcggg 180
cgaatcgtgc tatgcagcgg cgctcctgc tgggtggaggc ggcgcagacg atgccgtgga 240
gcccgtagtc atc 253

<210> 35161
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C3

<400> 35161

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gcggcgttcc aacaaaattg gtcacaacaa actgttctct gcacatagct gtctacaacc 120
ctgccacaat gtttggaatt catgtcactt ctggcccat ccacctgatg tattcagaga 180
tcccaatagc agtcggtcag gttcggaggc attaccaacc gaggaagagc caccggatgg 240
tgacggcggc catccacggc gagaagggtc cgctgtacgg cgccgggggc agcctgatgc 300
tgtcgacgag cacgggcggg gcg 323

<210> 35162
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-C6

 <400> 35162

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 tgtatcctga tgaaagacca tgcaatggtt ctcaagaagc tttagctcga tacagagaga 120
 ttgtacctca tcttcgcctt tcgggtccta cgtcattcgc cccaattatt gaccttggcc 180
 ccacccattg tggagcaaag tgggtggcaa taccatgttt taagcaatta ttgcttacgg 240
 gca 243

<210> 35163
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-C7

 <400> 35163

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 tgtggtcctt caatacgctt actccgggct tcggattcgg cacaacgttt gcccttgcgt 120
 cccggaaatc tttgcaaacc ggcgccgtta ctgtccggca aggcaacccc gtttttcggc 180
 cggcggtgat ctggagatgc tcttttcacg gtgttttttt ttggttacac tcccccttcc 240
 gtcctg 246

<210> 35164
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-C8

 <400> 35164

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 gtcatactga tgatacccg gcgcccattg ttaaaaacgt cactaacttt agccagatac 120
 taggcgcatt atccacaagc gacgagcaca cacgaattac tggccaatac atgacattgc 180

tcattgtcctt tgccgagcac cctcctttac cataccttat tgaa 224

<210> 35165
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-C9

<400> 35165

aatttccggt cgaccacgcg tacgcccacg cgttcgcctg gatgatgagc agccttcact 60
gaatctnaag gataccggaa ccaaggggcc ggttgacctt attctaaagc catctgaaga 120
tgacctcaag tgctggccac attgttttga gttccgtctg agggcctctc tttcaaagga 180
tggggacttg tcattgatat cacgcatcag gaatgtcaat ggcaagccat tcagtttctc 240
atttgcttat cacacatata tttctgtttc tgacatcagt gaggtcagga ttgaaggctc 300
ggagacactt gattatcttg acaaccttag ccacaaagaa cggtttacgg aacatggaga 360
tgccataaca tttgagtcag aggtcgaccg agtctacgtt agtccccaa atgtaataac 420
agttattgac catgagaaga aacactcggt tgtcataaga aagg 464

<210> 35166
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D1

<400> 35166

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aacagcgctc ccatcaacct ggtgggtggc gtgatcgagg aggtcatcct cgtcggcggc 120
gccgagtact accggatcac caacggactg gaccttgagg acaagctgca ccccggtggg 180
cccttcgacc ccttgggcct tgccagcgat cccgaccagg ccgccatcct aaaggatgaag 240
gagatcaaga acgggcccgt tgcccatggt ctcaatgttc gcctt 285

<210> 35167
<211> 357
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D10

<400> 35167

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ctgccaagaa tgcagagcat cttccacctc ggggaggagg gtggcgccgc cgccgtgcac 120

caccgcgtca gcgtcgtctg cgcggcgtcg tcgtccatgg ccatgggcgg cggcggcggc 180

ggccggcgtg ctgcgcagcg tgagcgctc gtcgtggggc tccagatcct ggtgcaccac 240

caccaccacg gcctgcacgg tcaactggcac gcgcacgctg cgaacgtagt cctgaagcag 300

atggtgaggg cgcgcgccgt cgcttgctcg cgccacggcc actgcagcca cgcccttc 357

<210> 35168

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D12

<400> 35168

cccacgcgtc cgctctccac aagtccagat cttccattca cacacactcg cgcgcgacaca 60

gagacctgga cgcgagcca aagcatccac ccatggcgcc tctcctcctg ctcttcctcc 120

tcggcgccct ctgcgcctc ttgtcgtcg ccacttcctc acgcgccagc gccaagaagt 180

gcgatgacgt caagagcaac ggcaattgcy gggactccgg cgaggaggca agatgcaggg 240

acgactgcgc gccagaggag acgcagcagc aggggaagat gcatgcgcgg cccgaccgg 300

agaaagacct gggcatcgta ttctccacgt tcgaccacga cggcgacggg ttcatacagg 360

cggtcgagct cgaagagtcg ctgcgcc 387

<210> 35169

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-D2

<400> 35169

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ttgctgtgtg gtcaaaccga taatgttgtg atgaagaaga tcgaggacta tttccagcac 120
 agtgtgcctg aggttcggaa ttggcaactt gaagaagatt ttgaggctgc tctcaaggat 180
 gcatgtttac tttaaagtaa ccaccgaaac ttgtggtggt ttttgctgag cctgctgcac 240
 aacgttattg agctctttct gctcttctctg tggcagcact gattnttacc ggtgattttt 300
 ttttcgctga acgtgctgga caagcgtgct gtgctctta 339

<210> 35170
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D3

<400> 35170
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 tgatcggctc agatgatacc ggactgcctg agacagcata ccattcaagc atgaagagcc 120
 acgtagatct catgaaacac ctatactga ccatactgct cagtggatga tcaactgtct 180
 tccaataat ctactgcgt ctacgacag agatcacttg cc 222

<210> 35171
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D4

<400> 35171
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 gaagctgctt ggctgttgcc tcgaggtcga ggtgcccatt ctggtctacg agtacgtccc 120
 gaacggcagc ctccacgcgt acatccacgg cgatggcgac tgctgctgca gcggtggcga 180
 ggccaagctg aatctggcac ccggcgcgcg ccttcgcata gcggccgagt ccgcggaacg 240
 gctcgcgtac atgcac 256

<210> 35172
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D7

<400> 35172

gtccgcacac ggccacacca cacttagctt tccccatcgc ggcacactc tctcggtctg 60
gccctcccag tcccagcggt tgcgggtccag tccagagagc tcgagcagcc atggcggtc 120
ccctgttcct cctcctcctg ctgctggcta tggt 154

<210> 35173

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B7

<400> 35173

gaccaacctg gttccttacc cgatgaccc tttcatgctc tctcctacg caccggtgat 60
ctctttctgcg aaggccttcc acgagcagct gtctgtggcg gagatcacca gcagcgcggt 120
cgagccgggt tccatgatgg tcaagtgcga cccacggcac ggcaagtaca tggcttgctg 180
cctgatgtac cgcgccgacg tgggtcccaa ggacgtgaac gccgcggtgg ccaccatcaa 240
gacgaagcgc accattcagt tcgtggactg ttgcccagcg gggttcaagt gcggcatcaa 300
ctaccaggcg cccacagttg gtgccgggtt gccgacctcg ccaagggtgca acgtgccgtg 360
tgcgatgatct ccaactccac ccagcgtctc gaggtgttct cccggataaa cagcaagtct 420
tacct 425

<210> 35174

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-D9

<400> 35174

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actgcagtgc taaatttcta tcactaaaac atgacaactc tactatcgat ccatcatcct 120
tgctgatgc attagatctt ctatcaacat cagacaatag aatacgcta ctcgttgctg 180
aggctcaact tctagcacga gatgatgaac aaagctcttc tgatgggtggc gacgattctc 240

atagtacatc ctcatt

256

<210> 35175

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A12

<400> 35175

acattcactt actcttttaa cttctttcca atatcaacat ttatatacta aaataticctc 60

tttattcatt tttttctatt ttcatacttt aacaaactct aacaaatact taatcttaat 120

cacccacac actttcctaa tactatata ctctttcacc ttctttattc tcctccttct 180

aattaaccaa cactattctc cataaattat catatttttc atatacaatt ttatcctata 240

ttttcttaat ttctt 255

<210> 35176

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-F10

<400> 35176

tactcttacc acatatatcc aacattaacc aacaactaac atctaattcc ccactatact 60

ctaatacaat tccaatctca ctacacaagt cctcttatca atacccttta aaatcctcct 120

aataatcaat ctcaaaaatc ttaatcttta tacccttttc attatatata caacctcatt 180

ctctctacaa cacacttctt ccaaactaca cttatatctc acatacttac ttaacacatc 240

acccacattt cta 253

<210> 35177

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-007-Q1-K1-H11

<400> 35177

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aacaacacac aaataactcaa cttcatcttc aaactactat aattttctctt ataacttcca 120
ctcttcacaa ccattacctc attcacataa aaaatattctt tccaaaccat cataaatcaa 180
taccatttct acatctctaa tataatactt atttaaatac tcaccatctc taccattatc 240
ctcatctcca tctttttccc aatttaactc taataattat atcatcactt tctttcataa 300
tctatttttt tcaactccaat attttatcac ctttcnctac ccatcaac 348

<210> 35178

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A1

<400> 35178

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tcgtctcgct cctctccctg cgcagccccc agatccggca ccgcccgctc ctcgatcccc 120
gcaccccacg cccgcaggcc gggaccggcg gggtcgcgcg ccgggtagga ggaggagaag 180
aggaagggcg gtatggcggc gccgccggcg agggcccggg ccgactacga ctaccttacc 240
aagctgctcc tcattggaga cagcgggtgtt ggcaagagtt gcctcctgtt gcggttctct 300
gatggttcct tcaactacaag ctttattacc acaattggta ttgactttaa gatacgaacg 360
atagaattgg atggcaagcg tataaagcta cagatttggg atacggcggg ccaagaacgc 420
ttccggacta ttaccaacgc gtactaccga gg 452

<210> 35179

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-008-Q1-K1-A11

<400> 35179

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gtgacnatgg ttgatgtgtc gattaggccc tctcgccgcg gatcctcctt gccagctgaa 120
tgtcctttgg catgatggtc acacgcttag catggatggc gcacaggttg gtgtcctcaa 180

acaggccacc aaggcttgcc gtaagtctgc cctcaacact ggctcgactga agaatcctca 240
ccggtaccgc cctgtaactg ttgccc 266

<210> 35180
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-008-Q1-K1-A12

<400> 35180

cgagagaatc gtgagcagat cgtgtgacct gtctcttatt ggcgtcttcc gtaggcggtt 60
gcgganacgg ttgctgtggc ctgggccggg gccgttgctg gctgtttgtt cgttgcccat 120
cgatacactc ctcccttgcc ttaccgcgat gcaatccgtg tgtgtgtgtg ctctgcctct 180
gctcgccggc gttggtttcg tgtgtgcct gcctgtcgtc ctcaccgcaa cgctactcgt 240
taccagctat caactagcat tgccttctcc ttccgctaca agaatctgac gagccccct 300
ccctaccgta ccgcgctggt cccagctcgc tcctttccaa agtgtact 348

<210> 35181
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A2

<400> 35181

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acatcgtctc atatgccaca ctctcgatca acaacaacag atcagttcat cttcaccatc 120
acatcctcct cctctacca caaaaaaagg aagggggaaa aatgaaatca tctcaacgcc 180
tgtacaaaaa atgccgcctt ttccacagtt gtccttgcca tgtcctacgc cgtaccgttt 240
tctatactgc tgtga 255

<210> 35182
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A3

<400> 35182

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agaacatcac tgatagacgt attaatgcat tctactcatc taaatgttac aggaatatat 120
gccttatctt gtactacttc cgatcttatg catgaacttg aacagaaaat cgtgaaattg 180
ccttctttaa aagttaggac tgcattgtgac gatgtttctg aaaaaagga tctattatgc 240
acgctgtcta caatctgctt acagcttata cacatttaga atagaaagct tatcccatgg 300
gaaacct 307

<210> 35183

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A4

<400> 35183

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ggagtctagg aaggatctga ctggtcttcg tggaacactg aaaacgggta ttgaagacag 120
ggacctgtcg tgtcaagagg tgaagtagct gagacgaaac atcatcatca tgctagaacg 180
aggatttt 188

<210> 35184

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A5

<400> 35184

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cgagtccggc cttccgtgcc ctagccgagc cagccgcgag gaaggaggca tcccgccgtc 120
tcgcctggcg cccgccgctc ggccgacctt ctgccgcagc ttccaattgt aaaaagatca 180
tacatttttg tgcaagagcg agtggatatg gaaccatccg ctcagcctat ggggtgtcgtc 240
gccggtgggt cacaagtgtg tcttgctctc gcctatccgc ctgcagcaac agtagctcct 300

gcttctgttg tatctgctgg ttacagtca gggcagccat tcccagccaa tcctgggtcat 360
atgagtgttc agcaccagat tgtctaccaa ctagctcaac agttcccacc acagc 415

<210> 35185
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A6

<400> 35185

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aacacaaaaa gatacagaaa aaattaaaca aaaacaaaac caaacactaa acacaatctt 120
caaaaa 126

<210> 35186
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A7

<400> 35186

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acgacaaccg ggtcaggccg actttgcatt agtccaggcc catgcgaagt aataactatc 120
caatcgaatc acctaaatcc aactcactgt ccgtcctttt acaacacct 169

<210> 35187
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-A8

<400> 35187

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gctgttgcat acaagaatgt gatcgctgct cgccgcgctt catggcgcat tgaaccttcc 120
attgaacaaa aggaggactc ccataagaac aacaagcatg tgaaccttat caaagaatat 180
cgtgccaaaga tcgaagcttt actgaac 207

<210> 35188
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-A9

 <400> 35188

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 agccactcga tctacctcct caccactggc gccacgaaca gctctttcat gaacatcaaa 120
 accattgctg agtgccttgc agatgacttg atcaactctg ccaaaggctc ttccaacagc 180
 tactccatca 190

<210> 35189
 <211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-B1

 <400> 35189

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 aatacttgag ag 132

<210> 35190
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-008-Q1-K1-B10

 <400> 35190

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 cgcgcntgtt aaactatgta gccgccacca taaaccgctc tgcgcagcct ccggatctca 120
 agaagtacat ggacaaaaag cttcacatta agctgaatgc aaaccgtgtt gttattggca 180
 cacttcagag attcgaccag ctcatgaatc tgggtgatcg caacactgtg caagtcaatt 240
 gaaatgacaa gacagatatt gtaatggtgg ttatcatggg aaaccttgtt atcatgatcg 300

atgcactaga accagtttcc aattccaatg aaatcttaat tttcaactta ttt 353

<210> 35191

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B12

<400> 35191

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tgtcatatac tcacatgctg ctattttctt ttcagattga ggagatgcat cgtgaacttt 120

gcagcttggg aatatgcttt attccaccaa tgtctacgcc tcagcctcca ggctctgtat 180

ttaggtcctt tgtacaaagt ttgggtgctca aagctagagg tggagatcat aggatgggtg 240

tcaatgggac tttcaacaac actgtgctta tttcattgta cacagtaatc ctacatttgt 300

tgtcaaaaaa aaaaaaaaaa aatttatatt taaaattata aattaataat t 351

<210> 35192

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B2

<400> 35192

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gtccgggcac tgctgctgct gatcggcggc tgctccatc ttggcgccag cgagcgagc 120

agcgtcg 127

<210> 35193

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-007-Q1-K1-A11

<400> 35193

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cccccccca ccaccacaa cccaccccca cccaccccca cccacaccc atcccccccc 120

accaccccccac ctccccacccc cccccacccc cccccccccccc cccaccacccc accccccccac 180
 accccccccacc cccccccacc cacaacccccc cccccacccc cccacacccc cccccccccccc 240
 cccccccccac caacccccccc ccaccaacca caccacacccc cccacacccc cccacccccccc 300
 cccccccccccc ccccc 315

<210> 35194
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B3

<400> 35194

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 gggcggtgac acaatgaaag aaaatgcctc cattcatgct tatgcgcatg aattactgga 120
 agctcatgaa tgctgggtga aatatcacgc tacacgagag gatgctgagc taactaaggc 180
 ctgcgatttg cattaccatg ttttcagaag aatgcctca cagcttaca gtcttaccac 240
 cctcgatctg cactctgact agcctgagct actcaaagt caaaagttgg aacttgctgt 300
 gccaggaact tatgctgcat attcaccact cgtgacgaat gagtattatg gtccccaatt 360
 gattgttata acgttca 377

<210> 35195
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B4

<400> 35195

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 gttcgaagaa tggatgctt gaagtgtata actctctgac tgaagaagga aagaagcagt 120
 ttattgaggc ctatagtga gcatattacc catgcatgga catattgtat gagtgctatg 180
 aagacgtctc ttttggaagt gagattagaa gtgtgggtgtt ggctgtgagg agatttcatg 240
 agaaggaagg gtcctctgct tttccctatg ggaaaaattg atcaaaccac gtatgttgaa 300
 ggggggtgaa agggtcctt caaccaggcc acaatgtgat cttggcccaa tggatccctt 360

t

361

<210> 35196
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-B5

<400> 35196

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tgcgagtcga ggcctcgagg ttataaatca gtttgaagtg ttgaactccg gttactgtca 120
ccctacaatg gtagctctaa tcaagaaccc taatcatata tcagatcaca ttacatgaca 180
gtcgacactt gacacgggca cacacacaca ccagcgcgtgt ccatggatca tacctgcaag 240
tcagctccgc ggcgcacccg gttgcgccta cc 272

<210> 35197
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G12

<400> 35197

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actcctcaac cttctactcc ctataatgcc atccctgaat aatacatacc aaaatctctc 180
cactctaaca gaactacata tctatactga cctaccaatg ttcttcatac tctcccttaa 240
cacctacgac acaatcattt ccagactctt aatgaactat ctacatcatg catcaccct 300
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<210> 35198
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-006-Q1-K1-G2

<400> 35198

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cctacactct acccgcacag cgccccctcg cctcacaccc caacccaacc attcgtctct 180

tgtcgccttc cgacgctgag tttgctggcg tcgatttgca cgggoggatg ctcgatctgg 240

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aacagaactg gaat 314

<210> 35199

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G3

<400> 35199

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tagccgaata gcgaaacgac tgctctcgcg agctcgacgc tagatgtacc ttctgctgcg 120

cccactgccc gcttgtgtac tataatgtca cagcgcccc gagccgccac ctgacccaaa 180

ctatacgctt ccttcggccc ttagacgctg aagccgctca agtaaaacttc acccaccgga 240

tactacttct aca 253

<210> 35200

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G4

<400> 35200

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aactgcgcca ccgtgccgca gccgccgctg tcgacagggga agctcatcac gatcctgagc 180

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aagctccagg agctgg 256

<210> 35201
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-006-Q1-K1-G5

 <400> 35201

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cgtcgccctc gcgctcgccg tcccggccct cgccggcgac ccggacatgc tccaggacgt 180
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ctcggcggac gacttcttct tcgacgggct gaggagcccg ggcaacacca acaaccggc 300
gggctccgcg gtgacggcg ccaacgtgga caagttcccg ggggtgaaca cgctgggcgt 360
ctccatggcg cgcacgact acgccccggg cgcccagaac ccgncgtaca cgcacccg 420
cgccaccgag atcat 435
  
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<210> 35202
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-G6

 <400> 35202

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ggthtttgatg gcgttgthccc tgtgaaatac thtgaaagaa tcgaaacatg gccaggacga 180
gthccaatac cgtthcaaag ataacaggcc atgththcagc attgctagth cgtacgtact 240
gaaaaatgat thgtcatgat gtatcccgga gaaccaththt ththggtaat tcacatacac 300
taththgggg ggtthgcttht thththththg gggggggggg gagthcactat gattgtgthg 360
ggacctctca gatattcgtht tgatgaththt thg 393
  
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<210> 35203
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-G7

 <400> 35203

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 aagcagacat atacgaatgg ggctcgtgtt tatgaagctc ttcagccatc tcttcgtcga 180
 taaggatatg catatcctta tggtcagcat cgataccact ggtaaaacca ccatacctcta 240
 caagctcaag cttgacgaga tcgtcatggt cacctttaga ggaacacatt ggacaaggac 300
 tcggacactg ttgcataccg atgatacaga tctaaagtaa gatggggatg tcgtgtgctt 360
 gagacgacaa ggatggaaat cttttcaagt aatggctact ctttttatca t 411

<210> 35204
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-G8

 <400> 35204

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 gcgccgccgg agcccatccc accgcacgct gcaccgtcgt ccgcctctgc aatttgccgc 120
 gccggtcccc gtcaatgtcg attgccgtct gcctcgtat ccatacgggc tgactccatc 180
 ccgtcggttg ctgctcccat tccccacac cgtgcgcctt gctactccgc acgtttgaca 240
 actccgaact ccatactgctc attcatcgtc tcgtccattc ctacaggtat gaacactctt 300
 cgaaatgtgc ctactcggtt ttagggatat cttgggtcta gcgaggaaga tgacgaaag 360
 ttcctctcgc caatacctac ggtttcggcc gcagatcgag ccagtggccc caacttgtgc 420
 gcgagcgaac g 431

<210> 35205
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-G9

<400> 35205

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ggggctgcta tccaagtaca gaatgaagag ccttccagtt gtagaagtgg gaggagataa 120

gattgagaac attatcacac aatcctctgt cgtacacatg cttgcagagt gtgttgggct 180

ctcctggttt gagaactggg gaactaagaa actctctgaa ctggggcttc ctgtcatgaa 240

accatcgaaa cttgtcaagg taagcgaaga tcagccagtt ctgaaagctt tccaactgat 300

gagggaaaag ggagttgggtg gcttgccagt catggacaca agtggagcaa atgccattgg 360

taatattagc atcagagatg tccagtatct tttaactgct cccaagatat acaaagagca 420

c 421

<210> 35206

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H1

<400> 35206

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ctgctagcac ggaacacgct tatgttggct tagaggaaag atcagcagcc ctcaaggcac 120

tttcattggc tgctggctct atgcgtggat catctgcact gagatcagga gcttatccac 180

aaagcattca gcataagtct acagtgtttg ctccctaagat gccagaacta agatctgcag 240

taacccttcc accggcacca gcagtgccag tcccagttgc tattcctttg cgtgtggcag 300

ctcaagtaca ggcttcggct catcaagggc attaagcttc tgcccatgct tcaccaccca 360

aatttgtaaa tgc 373

<210> 35207

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H10

<400> 35207

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tgagtattct ttatacaagt gtctgataag aggtaaacag ccttggcata actgtacatg 120
taataaaatg aataagggtc tgccaactct cgggtctcggg tatgcccaatt aataaccata 180
attcgttggt tcagaccacg gtactttttg atcagccggc tgctgctgtg agccgataac 240
aatgtagctc attgtgcacc tccatattgt actcttgata agtgtactac tcactactgc 300
caagcaacga tgagatagag taattggtct gtttcccgca aaaataactta c 351

<210> 35208

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-006-Q1-K1-H11

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ggcaagatca tgcccctgtg gaggcactac tttcagaaca cacagggact tattttttgtt 120
gtagacagca acgacagga acgtgttggt gaggctagag atgagctcca caggatgctg 180
aatgaggatg agctgcgtga cgctgtgctg cttgtatttg caaacaaca agatcttccc 240
aatgctatga atgctgctga aattactgac aagcttggtc tgcattccct gcgacagcgg 300
cactggtaca tccagagcac ttgtgctaca tctgggtgaaa ggttgatga ggggcttgac 360
tggttttcca gcaacatctn cagcaagtct tgaagctttt cggcagggct cctagcgaga 420
ggatgtctga acaacttatg gctgcttttt ttacatatta tac 463

<210> 35209

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H12

<400> 35209

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aattaataag taatgccgga tatccaatca aggccttttg gtcacaagta cagaaaagag 120
aattctgaag ctgataaagt tgagcaggtc 150

<210> 35210
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H3

<400> 35210

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tacttgccagg atagtatcaa cgaaccagga gaaagaaatc gcgactaaag aacttggcag 120
ctgctctatg agtacaccac gtgctcatcg ctccgccaca acgtcgttca agcagctcgt 180
gacatcgac 189

<210> 35211
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H6

<400> 35211

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ttctgcacca gcgatgccaa aaggaatgcc agccactccc atgttcctat ccttgcccca 120
ctgacaattg acttcgcgat attcctgggtt caccttgcca ccatcccat tactggcact 180
gacatcaacc caactaggat ccttggcgct gccatcatct acaacaggga tcacgcctgt 240
aacgaccatt ggatcttctg ggtcaagccc ttcatggga ctgctctggc tgccatctac 300
caccagggtga tcatcatagc catcccggtc aaaaacaagt ctt 343

<210> 35212
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H8

<400> 35212

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tatcaaaagc acccagacca cacacatgga gccagccaag gagcacgagc gcatcaaggc 120

caccggcaag aacgccgaga tgtggcccta cgtaccctac acgctcacca cctac 175

<210> 35213

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G11

<400> 35213

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tcgattgaca tgcctagatc tggaaccgct ctctggagcc ctggcggccg gcaacgccgt 120

ggtggtgaag ccgtcggagc tcgcgcctgc cacctcggcg ttctctcgcg ccaacatacc 180

caagtacctg gactccaagg ccgtgaatgt ggtggatggc gggccggagg tgggggagaa 240

gtcatggag caccgatggg acaaggttct cttcactggt aatgaactac gtacgtaatg 300

catgagcgtg tatctgcgtt accacctggt gtctctctca ctctcaggca gcagccgcgt 360

tgggcgcctt atcatggccc aggccgacaa gcacctcacc ccggtggcgc tggagctcgg 420

ctccaaatgc ccctgcatcg tccactggct tgaca 455

<210> 35214

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-H9

<400> 35214

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cagtgtctgg ataggagggt cgatcctagc ctgcctcagc actttccaac agatgtggat 180

atcaaaggag gagtacgatg agtctggccc ggcaattgtt cacaggaagt gcttctaggt 240

ttctgccaaag ttctgtcaagt gcttttaggg tttgccatgt tcatcatcgc tacctagtct 300

taagttatgc ccccttcatt tgctgagata tgtgtggcaa atttgcatc gtttggtatt 360

tc 362

<210> 35215

<211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-007-Q1-K1-A10

 <400> 35215

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cataatttct ttaatagctt ccactcttca caaccaatac ctatttcata taaaaaacat  180
ttctccaaac catcataaat caatacccat tctacatctt taatttaata cttattttaa  240
gactcaccaa ctcttccatt atcctcaact ccagctcttt cccaactaaa ctctaataat  300
gatatcatta atttatttta taatctatgt ttttcaactc aatattgtat tacctttctc  360
ttcccatcaa caacatcttt cgctcatctc tcatcagcaa actcttctaa ttactctctc  420
aaact                                           425
  
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<210> 35216
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-E1

 <400> 35216

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gtcatctgcc gaagccaatg ccgcaacgaa ggccgtccca cagtctgtgc tgcgcaagcg  180
caagcccagag gagcagtgga caacggacaa gaaagagaac gccctcgcat acaagaagga  240
agcgcttgac aaccgcaaga tcatatttgc tcgctccaag caatactccc a           291
  
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<210> 35217
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-E10

 <400> 35217

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 cgaagtataa tcctgaaata atgtatagcc tatcttggga aaatgcgatg cagcgcaaac 180
 tcaatgcagc tgttgaaagt gcaacagaat gtcttgagat ggtgatgggt ggttctgtta 240
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 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-006-Q1-K1-E11
 <400> 35218

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 actttcttat tctatcttcc ctcatactat tcaacaaatc ttcattacaa ctatctaact 180
 cctactccaa catcctattg cagatcaaaa togaccatat caaaatatca cttccctaga 240
 cattcccatg cattaaactt tacattaaac ctccctaaatc atcttcatta aataatcatc 300
 aaaattcatc acacacataa taataatccc cattatttca taaaccgaca cttatctaatt 360
 accttacttc cattgaactt tgaatttatc gtcattaaat aatcaaagca ttattttattc 420
 atactcaata atat 434

<210> 35219
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-E3
 <400> 35219

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caaaaaaaca caaaaactca ccaaaaaccc ataaaaatac ccaaaaaaaaa aaaccaaca 180
 caacacaaaa aacacctaca aacccccat 210

<210> 35220
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-E4
 <400> 35220

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 tgggtggtgcc cgagagacaa gacccgatgc tgggtactcaa gttcatctgg atggagaaga 360
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<210> 35221
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 <212> DNA
 <213> Zea mays
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 cagcgaccgt gaactgcgcg gacaatacag gcgccaagaa cctctacatc atctccgtca 180
 agggcatcaa gggtaggtc aaccgcctgc cgtccgctg cgtcggcgac atggtcatgg 240
 ccaccgtcaa gaagggtgaa cccgacctca ggaagaaggt catgccgcc gtcacgtcc 300
 gccagcgcaa gctgtggcgc cgcaaggagc gagtctacat gtacttcgaa gataatgctg 360
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<210> 35222
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-E6

 <400> 35222

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 atgcaacggc tgcggtatgt accctgacat ggagaccgtc gccaccagca gcgtcaag 178

<210> 35223
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-E7

 <400> 35223

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 gggattgcac aaagaagata tcagctggaa accagaagtg taataatcat aaggattacc 180
 tatctttcgt aagaggtgca gtgccacgca gccacgcagc aagcactcca aatggtttag 240
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 tgccagagtt attgctttct tgtcatgaca tcaatagcca agagaggtcc ccatcatcta 360
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 gatc 424

<210> 35224
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-E8

 <400> 35224

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cttgactacg agcaagagtt ggagactgcc aagaacagct cctcagttga aaagagctat 180
gagctacctg atggccaagt aatcaccatc ggtgcagaga gattcaggtg ccccgaggtc 240
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tcaatcatga aatgtgatgt gga 323

<210> 35225
<211> 342
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-006-Q1-K1-E9
<400> 35225

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tgactgtagt tcaacgagtg cattatcctc ttccaccagc cctccaactg cagcctactc 180
cgctaatact atctcgagat cctccaccac tccaatgaat tccatcccac gaacatgac 240
tacaaatatg atcaacttca gatcataact tcttctctta atgccaacga ataaacttat 300
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<210> 35226
<211> 302
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-F1
<400> 35226

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atggcacatc actcagtgtc gagcactgag ctcaagctca gtggaagtgg agggcttctt 180
actgggcgcg ttacgacagc tgctgcgcgac gtactcgtcg tccgcgtcct tgccgaagag 240
cttcacggtg tctacaggc tctgcccac ggtcttcgac aagaagaagt acatgaacac 300
cc 302

<210> 35227
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-F12

 <400> 35227

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 aaccgtccag gttgtgctg tggtgctgtg ccaagagtac tcttaccaga agatgcaacg 180
 gaaccaacaa ctggcatcaa gttccccact gtactcgaag acaattccaa tctgactaca 240
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 ctttatgcct ttggattata tatacaacct gattctgtct gcaagaagct gggcccaaag 360
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<210> 35228
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-006-Q1-K1-F2

 <400> 35228

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 tcatatgcaa cgtgacgana tttgcgcaac atcacaagca accaccacct gcattacaac 120
 acctgtgaca acccaccgaa ccaactccct cactacttca ctctcgtcga cttcaacggc 180
 atgcttaaca ctaacgcccc ctctacaagg a 211

<210> 35229
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-F3

 <400> 35229

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 aaacttactt acaatggtac ttaaagtcac agcacctaca ggtttcatat ttcacacttc 180
 ttctgatgtt aaattcattt cctagttata tgtctattgt gaaatatgtt atggaacaat 240
 atttacacaa atgggtgaaa gggaacggac tcattcactc tacctgtgac ttgcaccagc 300
 gttgacgaga gctgttgtct atgggtggcct tcgctattaa ctgtatgagc ccttcaagca 360
 tgccctgcagt tattccattt ggttcaacat actttgcttt taaatttgca 410

<210> 35230
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-F6
 <400> 35230

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 tttgttgtgt gattctcttg gtgggtcact ggtctcatgc atgcgatctc tgtataaatt 180
 caccgactct ttaggaactg attactattg gctattcgct attatgagta ta 232

<210> 35231
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-D9
 <400> 35231

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 tgcgggggttc ttattaacaa gttatcggat ctacatatcc tcatcacatg tttattaccg 120
 ctgcttcata aactgcctca cctctaccac ttactaccac tctcttcaca acaccttcag 180
 cacctacttc tagatcctct aatccaatat catcctctat tcttataccc atatctccct 240
 caacttcagc ttcatcacct tctccactga ggatgcaata cttaacgcca tctaattgcat 300
 taactgcaaa taactttact tcctcaacat caccatcaac tatgcccaat cc 352

<210> 35232
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F7

<400> 35232

gattcccgct cgactccacg cgtccgcca ctcacccac cacacttacc tataaactaa 60
tcataccata ctcacagaga ccagtgcacat ttcaaattcca accaacaact aaaactacct 120
acatcacaac tcatgaaaac cattctacta tcaaccaaca acacatcaca acatactcta 180
accacatcc 189

<210> 35233
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-G1

<400> 35233

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caaccatcag atcattgtta aaatcacaat cttctaccac catcattaca acaccttcta 120
caacctacct tactaactcc ctcactcct 149

<210> 35234
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-G10

<400> 35234

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aaaaagtata ctgcctctta cactatttat aatctttcna cactcaatat tgaactttcc 120
cccaaagtga taccattttc tcatgattgt caaatatttg ttgtctttat aatgattcaa 180
acatgattta ttattgctca taaactatth cttacattgc attatgaaac aaattgttat 240

cgtattccac atctttttca tatattattg taatatacctt attcctaaca aaaaaaaaaa 300
tctcatttaa agcatattca ttccaaaaaa aacaaattcc tattatta 348

<210> 35235
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C10

<400> 35235

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ataacctata acacgaacgt ttctcttcta aatcaaactg ctctttctac tcttccctgc 120
actcctccta ctctacacc aatctcaacc aatactataa cgcaccttct atactttctc 180
aatccactac aaatccctac tcccctcccc tctccattct tccttccctc cacattttct 240
tctccgcctc tgttgatgac ccacatatca catccactgt ctaatacctt ttcactgact 300
cagacatctc ctaccaacac tacaaccctt acctccacca ccaccacc 348

<210> 35236
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-C11

<400> 35236

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tataggaagt caatcgggat gtggctacgc acaccttgta cttactgcta acaattcgta 120
aaaaaatggg tttgttcacg atcttgatga tgagtctggg gggatgcgag gatcatgctg 180
cagaggtact aagcgcagcc gcaccgctga agtgcacaat ttgtccgaaa ggaggagaag 240
ggacaggatc aatgagaaaa tgcgcgccct gcaagagctc atccccaact gcaacaagat 300
tgacaaagcc tccatgctgg atgaagcgat tgagtacctc aaaaccctac agcttcaagt 360
tcacatgatg gccatgggaa gtggactgtg catttc 396

<210> 35237
<211> 246

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C2

<400> 35237

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 tgatccttga cctcgtact cctttcttga ttcctactcc gattaatctc ttaccaagat 180
 taaccttccc cttctccacg ctgcgactct cactctcaca tacattcttc ttaccacatc 240
 tttaaa 246

<210> 35238
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C4

<400> 35238

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 acagtgtcca tcttccacac ctctcgtcgt cgtctccgtg caccactcgg cccccactgt 120
 cgcccgcgcc tcccagccac ctcgtgcgcg tctgccaccc cgcccgctct cactgcccc 180
 tatgggtgcc atgggcgagc gctgcccgag tagccgaccg ccctttcccc gcggtcttca 240
 gctgccgcgc gctgccccgc ctccccggca ggctccact gccacttct acggcgggcta 300
 cagcggaagg caaggagaag gacagcgggc agcggtagct ggatctagca agcacagggc 360
 gtctttctca tccgccacct ctgggcgcat catcagctga gattttcagg catttgcctca 420
 ggtgggtttca ttccataata tagctactac 450

<210> 35239
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C5

<400> 35239

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agtcaagctg ggaagcctcc ttgagctacg gctgagcaac aactgcctta caggcattgt 120
 tcctgcaagt aatgattccg acgtggaatc cgccagcagc tctgatcaaa ttggattgtg 180
 tcagctatct caactaacca atattgatct ctcgtataac ttcttggttg gagatgtccc 240
 cgcattgctta cagcaaatcc aaagatcaag cttggtaggg aattgcttcc agaacaacac 300
 atcaaaccgc ccactacaac aatgtgaaac taatcaggac agaggcaaag acaatgatgc 360
 tgatgagaat gtgcagaaag gcctgccaga gccactttgg cttctcattc tggaagtcac 420

<210> 35240

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C6

<400> 35240

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 aactttctga tgctacaaac aacttttagta tggaccataa gattgggcaa gggggttttg 120
 gttctgttta ttatgctgag cttagaggcg agaaagctgc cataaagaaa atggatacaa 180
 aggcatctca agaattcctc aatgaattga agattttgac acgcgtccat cacacaaatc 240
 tgggtgcgctt aattggttat tgtgttgaga gttgcttatt tcttgtttat gaatttattg 300
 agaacggaaa cctaattccag catctgcatg ggacgggtta tgaacctctc tcatggacca 360
 gtatagtgca aattgccctt gattcaacaa ggggtctaga gtttatacat gagcacac 418

<210> 35241

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C7

<400> 35241

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 tcatctacca gatgtcttgt taatctttct ttatggccaa tcgatgtctc tatcgcaaac 120
 ctcaacaccc aagcacgcct tacacagctt catgagtacc ttcttactca caactacatc 180
 actggctacc aagcaatcaa ggatgacttg gatgactaca catacgtttc atctgctacc 240

tcaccaagc atatcaacgt atcaaggtgg cagaatcaca t 281

<210> 35242
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-C8

<400> 35242

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ctctttgcag aacggtcagg ttgtcaagaa cgccgggtgcc gcgggcatga tactcgccaa 120
cacaccggca aacggcgagg agcttgtcgc cgacagccac ctcttgccag cagtggccgt 180
tgggcagtct gaaggcattg ccgccaagaa gtacagcaaa accgccccga aaccaacggc 240
cacgctcagc ttcgacggga cgaagctcgg gatccgcca tcgccagtcg tagccgcgtt 300
ctcgtcccgg tgaccaaact tcctgaccct ggagatcctc aagccggatg tcatcgcgcc 360
cggcgtgaac atcttggcgg catggagcgg cg 392

<210> 35243
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-C9

<400> 35243

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tgtaaggctt cctgtgtaaa tttgacttag gtctgtcaag tctattctat tgctggtagc 120
tcacattttt gtattccatg gccagattga tctccatgaa gctcgtcaaa gcattgaaca 180
gcatgaatcc ccagagaata tcttccgcgc tgtccttgaa actgctgctc aggcccatgg 240
tgaagataac agcattcagg gcatggtcga agaacttgcc actgatcaag agcttgccga 300
tgactacatg aaacttttga tggaacaagt tctgcagagg atacagtcag agtcgcagtc 360
ggggaccaag cc 372

<210> 35244

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-D10

 <400> 35244

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 taataacata ctcggtttac ttaattaata accaaattct ttgttatttc acattaaata 120
 atgattaaca ctctactca tacacttatt ttctgtgaac atgaaagcat tttctaaaca 180
 gtccttttct gtatccactg aacttgcaat attttggtat gctcaatgtt ttttcaatat 240
 gatgcccttt ttcatagtta tgttttaaatt cacaaacaca tgaatttttt tttcttaaac 300
 gcgcacgata gctgcacatc attaaattaa gacaagaaat cagtccaaaa tgtaccaaata 360
 tacaatgccca atatctgcaa aacacataac ac 392

<210> 35245
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-D11

 <400> 35245

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 acccatccac aagctctcta tttcgctctg caccttctca cccactgcat tcctctcctt 120
 gctccagtc tccccctcc tctaaaacct ctccctcaat ctctctctca tcatacaca 180
 cacttcccta tctccagtt ccatttctca acatatcaaa tttccaccta ctatgtccct 240
 actattctct tacctcaaag atctatataa cactc 275

<210> 35246
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-D2

 <400> 35246

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gctcccgggc gctgatccg agcagtctcc tcggcccagc cggggatcca agcgggatgg 120
 ggtacttgag ctccgtgatc ggccacccca ccgatggatc ctacgtcagc ggcggcggcc 180
 tcagccagaa tggtagattt agctatggct atgcaagctc ccctggtaaa agggcatcca 240
 tggaagactt ctatgagaca aatattgatt gtgttgatgg tcacatagtt ggtctttttg 300
 gagtttttga tggtcatggt ggtgctaagg tagcagagta tgttaaagaa aacctgttca 360
 acaatc 366

<210> 35247
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-D3

<400> 35247
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 ctcatcgcca ccaatggcca ctgccgaagt ccagaccccg accgtcgtgg cagccgatga 180
 agcgcgccgtg gtggagacct cgccgccggc cgacgtgccc gaggagtctg ccccgccga 240
 ggccgaggcc gaggccgaag ctgctgctcc tgctgatcc 279

<210> 35248
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-006-Q1-K1-D4

<400> 35248
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 catgtagnct ttaggaagaa aaaccgatcg atggcgtcca actacgtgga cacgacgggc 120
 gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180
 gcggcagcgg ctgcggcatc gccgcgcaac ttccggcgca gcttctcctt cgcgtcctcc 240
 gcggggccaca gccactgcgg cagcngcagg gccaaagtgcg tgtgcgcgcc cgcgaccac 300
 gccggggtc 308

<210> 35249
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-006-Q1-K1-D5

<400> 35249

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 atcatcatca accttgacct caagaaaggc ggcaacgggc gctacctcaa gacggcggcc 180
 tacggccact ttggaaggga cgaccctgac ttcacctggg aggtggtgaa gccactcaag 240
 tcggagaaac cttctgccta aagcggcctt ttttttcagt aagaagctnt tgggtggtctg 300
 ctgtgcttaa tcatgctttt atatggcttc tacatgttgt ggatctttct tgatctgcac 360
 cgcgcttata gtttgtgttg tactgcccta ataagtggcg cttatgagga ctgcttctgg 420
 ttttgcctgc 429

<210> 35250
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-D6

<400> 35250

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 gagcatccaa gttgcaaagt ttatggccag accgcaagca aaaatcatca caacgagtta 120
 acagatcttg gcatcatecc ctcatcgaaa ggcaccacta ttcacagaa gggtccacat 180
 gttatcttct gcgctcccc gtctggttca gatgattact ctagggatgt cagattggca 240
 gcatcaaatt ggactggtga aggatctttc ctgtttacat caagtacagc tctgtatgat 300
 tgcagtgaca acagcatgtg caacgaggat tgtctgtcag tgccaattgg caggagccct 360
 cgtactgata ttcttctaaa agtggaaaat gttgttc 397

<210> 35251

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-D7

 <400> 35251

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 aagctatagc taacttgaca gaagggtact cgggtagtga tctcaagaat ctttgtgtta 180
 ctgctgctca tcgtcctatt agggagattc ttgaaaagga gaagaaggag agagcttcag 240
 cagaaacaga aaataggcca ttgcctctgt cgcacactag caatgatgtc cgtgcattaa 300
 gaataagtga tttcatacat gcgcatgaac aggtgtgtgc aagtgtttcc tcagattcca 360
 gtaacatgaa cgagcttgtg caatggaatg atctc 395

<210> 35252
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-C1

 <400> 35252

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 tgctatatgg atccgttcca catgcaatta gccttgcac caattctcat tataaaaaaac 120
 ccaattatgt ccaactgctaa tacaactcat attattcaca tgatttctac taccaatcat 180
 aataaaatat tttaaactcat aacttcattc aatcaatcat aatctgtttc tatcaaacaa 240
 aacatacaca ct 252

<210> 35253
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-A2

 <400> 35253

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ctcataagtg gaaccctgat catgtggtcc atcttaccgt tcttctctta tgccatcgta 120
ccatggaacc gccctcttga caacttgact atccacatgc cttaacgagc caacagcaac 180
ataaacggat ac 192

<210> 35254
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A3

<400> 35254

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caccatgtac tatctcacga ttgaagtga c gatggcgaa gtcaagaagc tctacgaagc 120
taaagtctgg gagaagccat gggagaacct caaggggctg caggaattca agcctgtcga 180
agaggggtgct agcgcctaaa gatgtctcct tctccatgtg cgagcctgaa gctcatagca 240
aagttgcaga ataaggagcc atgctccctt gtgtaatttc ataagactac aaccctatta 300
gggcttcggt gggtgtgtct gtatcgaatg gaattgaagg tgattaatta tccttctatt 360
ctaataaagg gcgtttaatc tactacaata ctcttcaatc cacacctaac cgaacaagcc 420
cttaatatga tatcttaca 439

<210> 35255
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A4

<400> 35255

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aagagaaata caggcaactt gagaataaaa agatacagac tctacttgta aagaggcatg 120
agaattcaat aatgttaagg cccaacacaa gcttcagccg tccatcaagc agaggcttca 180
atacgagtcc tggctccaca tccatctgga gcagccaagt ttctgcaaaa gttcagctgc 240
ctgactcaga gaactcccca gctgaaaaag atatgctgtc aaaaataatt aggaacagag 300
gtacgcaggg cattttggga aataacagaa gctgttcaat ctctcatgaa gataaagcag 360

aagtctccac agtgaatcaa ggcatttcac caatttaatt ttttctcact ttaaatttct 420
ac 422

<210> 35256
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A5

<400> 35256

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gagcacattg gtacatttga atcagttgct aaccaataac ttcaccgaac tcaaacttct 120
cgtacacatt tgcgttctaa agacgatacct ccaataatcc tctcactaaa tcatcaatgc 180
ctttaagcac aaaactctct tgtcctctat cactgtgctg atctacggtc ttcaaacaaa 240
gaacattctc actcaacata caatgca 267

<210> 35257
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A6

<400> 35257

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ttttaaaagg tttttagact ttaaatttat ttaattcata tttttttaa aaaataaagt 120
ttttttaaac agaaacaaga ttctttaaaa aaaaccacca taacaacaaa tttccaaaaa 180
ccaccaaa 188

<210> 35258
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-006-Q1-K1-A7

<400> 35258

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 gtgaagggca taattcatgg gttagtgcag tttcttttga tccgtattgg tccccaccaa 180
 attctgatga aacggaagaa aatgtcatgt atcgcttttg gtcaattgga caggataccc 240
 aactgcttct ctgggatctg gcattggaag agattgctgt cctctacgc catccgtctg 300
 gtggtcacc gacattcagt agtgaagcc catctgcaca gtgngataat gcgtgccctt 360
 cagecgggtg tctac 375

<210> 35259

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A8

<400> 35259

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 cagtcgccat cgtccccacc tctcgctgct gtctccgtgc accactcggc cccactgtc 120
 ggccgcgct cccagccacc tcgtgccgt ctgccacccc gcccgctctc cactgcccct 180
 atggctgcca tggcgagcg ctgcccaggt agccgaccgc cttttcccg ccgtcttcag 240
 ctgccgctg ctgccccgcc taccgccag gctccactg cccacttctc cggcggtac 300
 agcgaagc aaggagaagg acagcgggca gcggtagctg gatctagcaa gcacagggcg 360
 tcttctccat ccgccacctc tcgggcctc atcagctgac agtttcaggc atttgcctaa 420
 gtgttttcat ttcataatat 440

<210> 35260

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A9

<400> 35260

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 gaggggtgg aggtgctgca gcaggccccg ttccacgagg atgccaagct tggcaagggc 120
 cacttcactt ccaaagttaa tcatctgcaa aggtttggtt tttatcactc gatgcatgct 180

acagatacac agtaattttt ttttacctac tttgtacagt tttatatata taaatgaatc 240
 taaagctggt tcagaagcat aattactcga tcaggcttct atcgaatata tgaatgcttg 300
 ttttttttat accaaaattg tataaggaac cttgacttaa acagtcagat tatgtgcagc 360
 aagattccgt catggatgaa gggctttgca cc 392

<210> 35261
 <211> 215
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-B10
 <400> 35261

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 ctacctatca atattcatat atacccccga cacttaccat ccctacactt acatactaca 120
 ctttgacctt cagaccaccc tacatacatc acatctagac aacatactct atgaccccct 180
 caatactttc tactaaatac acaattaaat tcccc 215

<210> 35262
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-B11
 <400> 35262

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 aaataccacg acctacctca aattaagcta acacattctt cattcaacct tcaccaaaca 120
 ttatataaac caaaaaactt cttaccatgt aaacactata tcacaccaac atccatattc 180
 acacaatcac cttcatcatc tttctcactt caatttcatt cacaatactt ttaaccttat 240
 aactacctat ataccctta acaacaacac tcacatctct taaaatattt cacatataat 300

<210> 35263
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-006-Q1-K1-B12

<400> 35263

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atgctagcct aaatatacta actatcatca ataatccaac acatgctgct atacactatc 120
atctttacaa gaaaccaacc catgtcacag agaagcatca tctcattttc aaccctctac 180
tatgtctcta cgatatcatc ctacttacaa tctaactaaa tatcttccaa gtcaatatca 240
caactaccta cacccatctc tttcatccag actctgacta cagactgggt aaccactact 300
tcc 303

<210> 35264

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B3

<400> 35264

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tgggtggcaat gacagtctat cgggggggagg cagcagcgga agcattggta acaatggggg 120
ttcctctccg tcttctgctg gagtcattgt aggctcagt gttggtacag tcgttggact 180
aggcettgtt gctgcattgg gatctttattg ttacaagagg aaacagaagc ctttcggaag 240
ggtgcagagt ccacatgcca tggttatcca tccgcgacac tcaggttcag atgacatggg 300
taaaaatcac agttgcaggg ggaaatgcta acgatgggtc tcgcgcaagc gagacatata 360
gccaaagcag caatgggtcca cgggacatcc atgttggtga aagtggaaat atgggtcattt 420
caatccaagt tc 432

<210> 35265

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B4

<400> 35265

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tcagggaaca ctatcgttac ctcaccaagg caggcgtgca tgccagcagc catggcgatg 120

gcgtacaaga tggcgacgga ggggatgaac gtgaacgatg agtgccagcg ctggttcatg 180
gagatcgaag tggaagaagg tgcaccgatt cgtggtgtac aagatcgacg agctgtcgca 240
cgccgtgcta gtggac 256

<210> 35266
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-006-Q1-K1-B5
<400> 35266

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actccagagt ctcttctgaa agaagctatt catgtcatca gctgtggcta tgaggacaaa 180
actgactggg gaactgacat tgggtggatc tatggttctg ttacagaaga cattctcacc 240
ggattcaaga tgcattgctg aggctggcga tcaatctact gcatgcctaa gcgaccagct 300
ttcaagggat ctgctcctat caacctttcg gatcgtttga atcaagtgct tcggtgggct 360
cttggttcca ttgaaattct tttcagcaag cattgtccca tatggtatgg c 411

<210> 35267
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-006-Q1-K1-B6
<400> 35267

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ctagtcccaa gtcccagcct tccatcgacg gcgagggagg gagaggcgac ctccatccgg 120
gctggttaga ttcatcgctt ttcttgtcgc tgtccctcgg cctttccccc tactgtgctc 180
cgagtctggg agaagcgact cgcgcacgcg ctcgccaaa ccaattaagc acagagcggg 240
gctctcgggc gagaacgcgc tgaggcagtg ctgggtttgc agttcgtgcc gtagcgtttt 300
ttttgtgtgt gtgccgaagc gaagaggcga tggctgcgcc gaggaagggt acggcgacgc 360
cgctgggcac cgtgttctcg ccggaggaga cgaagagggc cgtggcgagg gt 412

<210> 35268
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-B7

 <400> 35268

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 ctgggttagat tcatcgcttt tcttgtegct gtccctcggc ctttccccct actgtgctcc 180
 gagtctggga gaagcgactc gcgcacgcgc tcggccaaac caattaagca cagagcgggtg 240
 ctctcggggc agaacgcgct gaggcagtgc tggatttgca gttcgtgccg tagcgttttt 300
 tttgtgtgtg tgccgaagcg aaaaggcgat ggctg 335

<210> 35269
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-A12

 <400> 35269

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 gattcagtgt aaagctgtgg aaaacattca ctgactgctt taactgcttg ccagtgtcag 120
 cattgataga cgaaaagatc ctctgtatgc atggcggctc atctccagag ttgaacaagc 180
 tcgaacaaat acttaatctg agtcgccccca cagacgtgcc tgatactgga ttgctctgtg 240
 accttctttg gtctgatcct tctaataag caacaggatg ggccataaat gatcgagggtg 300
 tttcatatac atttggctct gatagtttct gaattccttg agaagcatga tttggacctc 360
 atctgccgag cccatcaggt tgtcgaagat ggatatgacg ttttcgctag ccgtcaactc 420
 gtaacaatgt tttcagcccc taactact 448

<210> 35270
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B8

<400> 35270

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tattttccaag gcccatcccc ccatccactg cgacggatca agacgcgacc tccaacccaa 120
ctgggttagac tcatacctta tcttgacact ctccctcgaa ctctaccact actgagctcc 180
taaccttcta gaaaccacta ccgcacccgc tctgccaac caatcaaaca caataccgag 240
ctactcaact agaac 255

<210> 35271

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-B9

<400> 35271

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ggtgaggtat ggacgaagaa ttctaccccc cgagcttttt gcaagaatag atgctgttga 120
tgcaagcact gtgaagcgtg ttgcaaaccg cttcatcttt gatcaggatg ttgctattgc 180
tgcgatgggg ccgatccaag gacttccaga ctacaactgg ttcagacgcc ggacctacat 240
gctccgttac tagattaatc agccggtgta cccatgttta ccgtctgcaa aagacaagat 300
aaaatttgcc tcttttagcg tcagtatatt aaggcctcag cactgcacat tacgtgctgc 360
gatggaggaa atttttgaga 380

<210> 35272

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-G9

<400> 35272

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ccgctcggca gtctcagcag cacctgtagc catggacgcc agcggagccg gtagcaaggg 120

gaagaaggggt gcggccgggc gcaaggcaag cggccccagg aagaagtcgg tgacgcggtc 180
 cgtcaaggcc gggctgcagt tccccgtcgg ccggatcggg cgctacctga agaagggccg 240
 gtacgcgcag cgcgtgggca ctggcgcccc cgtctacctt gccgncgtcc tggagtacct 300
 agccggcgaa gttctggagt tggcagggaa cgcggcgaaa gacaaca 347

<210> 35273

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H1

<400> 35273

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 cattgaatat tccaacttgg gcgcgcacaa actagtcagc tgatcaacat ggaatcatca 120
 ccttggtttg ccctttggag tgcttgtgca gcaaaagaag tatttttgtc tgtgaatgtg 180
 aaacaaaggc atgaaacacg atgggctaaa gctggtcac tcttggcttt agcacaactg 240
 tgtttgcctt agaaaaatgg ctttgttctg agtgtgagtg cattgtccag tagccctttg 300
 gtctgtgaac gcattggtga taatgtgacc atctgcaaga ataatgcctg gaaaatta 358

<210> 35274

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H10

<400> 35274

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 ggagtgatca acttcgtgaa tctaattctg ggtgcaaata tgagtttgac aatcctgcta 120
 gataattata gtgttagtga aataagcata agttatgcga cattaggcat cataaatttt 180
 tatgtatgtg cttaatttgg caaggaacaa aaatagtcgg gaagaggact ttgtgcagat 240
 gggagagctt cagtatttca gcaatatttt tcgatggaca aaaaaaaaaa ttaaaaagta 300
 taagatatgg attggtaaaa tatcttggaa taggatagaa ttgccaatt tttggaaatt 360
 aatgcttgta ctcatag 378

<210> 35275
 <211> 313
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-H11

<400> 35275

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 gggctgcgct gcgcctgcta tgcctgcgtc ctgcgccgta tcggcggtct catcagccac 120
 tgcgcgcgac gtcgtggacg actgcctcgg catcgtgcag cttcttagcg atggcaccgt 180
 gacgcgctcc gcggactact ccgacatccc tctcctgggc gaggtgccgt ccaacctgcc 240
 cgtccagtgg aaggacgtcg tctacgaccc cgcgcacgcg gctcgnnctc gcatgtacag 300
 gccaccgac acc 313

<210> 35276
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H12

<400> 35276

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 aaccacgccc tgatccgcgc tccagccctc cccatcctcc tcttgctatg gtgcccagct 180
 cgagctctct ccccttactg ccattggcga cgcctctccc tgctgcagct cgatgcccta 240
 ccctgcagca agcagtggcc taccctttct gcagcaagtg ggtgcccccg gaccc 295

<210> 35277
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H2

<400> 35277

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catgcgcttc gacaacttca tcatccaggc cggcaccgac gcgtcgctcg tgcccaccga 120
catggccacc accaactcca ccgtcagatt cacctaccgc aacaggggca ccttcttcgg 180
gatccacgtc accgccgacc cggtccagct ctctacagc cagctgacgc tcgcgtcagg 240
agacctccac aacttctacc agcctcgag cagcagccgc accgtcagcg tcgccgtggt 300
cggcaacaag gtgccgctgt acagcggctg acccagctg a 341

<210> 35278

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H3

<400> 35278

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gaagaatggg tggtagtagg tgaaaccgga ggccggcagga tagggagagg gagcgagagt 120
agaggccacg cctgcttgac agcaaggccc gtgcgctcgg cggcggcggc ggcggatatg 180
ggcgactctg gcggctctgt tgtgtcgggtg gacgtcgagc gcatctcctt cggcggcaag 240
gaacatcata ttcaaaccaa ccatggatct gtatctgttg ccatatatgg tgaacatgat 300
aagcctgctc ttattaccta cccagatatt gctttgaacc atatgtcttg ctttcaaggg 360
ctactcttct gtcctgaagc agcttcattg ctgcttcata atttttgcat ttaccatata 420
agtcccccat gacatgagtt 440

<210> 35279

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-H4

<400> 35279

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gtcagcgagc aggtcacgga catgttccgg cgcaaggcct tcctgcactg gtacaccgat 120
tagggcatgg acgagatgga gttcaccgag gccgatagca acatgaacga cctggtggcc 180
gagtaatagc aataccagga cgcgactgcg gaagatgagg aagagtacga ggag 234

<210> 35280
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-H5

 <400> 35280

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 cgtcgtccga ccacgatgag caccgcgcgc gcaggatccg cctcctccg ccacctgggt 120
 ccgcgcgtct tcggcccagt tttttctccg gcggtcgcgc cgccgaggcc actgctggcc 180
 ttggccggcg gcggggaacg gggcggggcg ctctgtgtgg tgccgggtgcg gctactgtcc 240
 accttcgtcg tcgaggcgaa ggaagaggtg gcggcggtcca aggggaactc aggaagcacc 300
 gcggcggcga aggcggaagc ggtggaagcc gctaaagagg gtgacggaaa gagagacaaa 360
 gtggtgagca gctactgggg cgtcgcgcgc tcgaagctga tgaacaagga cggcgccgag 420
 tggaggtggt c 431

<210> 35281
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-H6

 <400> 35281

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 ctagcagctg tgctcacgca acttcgtatt atttgttcat aatagggtga ggggaagttga 180
 agcaaaagtc taacaaaaaa tgttttacgg gggatatgct taccatggca actcgtttga 240
 gcaaacatac tctttgttat ccagcatcgt tttttgataa gccacacctg gaaggcggcg 300
 ataaagtaat aatgccacct tctgcccttg atcgtcttgc ttccttgca atcgagtacc 360
 ctatgctnat tgagctgcac aatgatgcaa cccaacggat ttcacact 408

<210> 35282

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-H7

 <400> 35282

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 cgccgtgccg gactactact ccatgcagtt cctcaagtcc aacaagggca aggtcaccac 120
 gctcgccacc accagcgtcg ccaagaagga ctacacctac gaagcggaga gcaaggacga 180
 caccgtcacg ctcgacacca ccgtcgtcac ctccaccatc caggccaccg tcagggacga 240
 cgacccgctc gccgtctacg cttgctccaa gttcctgcag cctaaggagc tgttcaaggc 300
 caaaaccgct gatctcgcgc ctgcgccggc tccacaaggg cccaagaaga agagcaagaa 360
 gaagcccacc ggcacttcgg cggccttcgc gccctcggac gatgaatctg cagatggccc 420
 gtctgccgac gacgacttgt tcgatgatg 449

<210> 35283
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-H8

 <400> 35283

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 tgcgaagctt tcggtgatag tgtccacagg agcattaccc tgtaccgaaa ctgatcttta 120
 taacttacca ccaatgctcg aacatgttgc tggttgctgg tatttttagc actgttctct 180
 ctggctaatz ggtctgaaga catctcaagg ggatatgtgg tgcaatctga gttctttaaa 240
 gggcatttgc acttgtggat gttgattgtg gtgcaacctt ggcttgctat aatttttaga 300
 taccgtttag ttgactagca ttagcacgct caaatgca 338

<210> 35284
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-H9

<400> 35284

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ccagatccag agaaaggcat aacgggcgtg gagccagttg ggccagggaa gatttaacca 120

gtcgggcccc gaaggagcct aagggttga tctgatgcta ccaggtcgct gagcatcgct 180

acggaagggg gcagcttctg attccggcag atggctcctg aaatgatgga ggaggggcaa 240

tcagctttct ataccggga tgacgtctc ttgtcatcag gttttgg 287

<210> 35285

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A1

<400> 35285

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ctgttttcca tgttcggctt cttcgtccag gccatcgta ccggcaaggg cccgctcgag 120

aacctcgctg accacatcgc tgaccagtc aacaacaacg catgggccta cgccaccaac 180

ttcgtcccca gcaactaagc tcaacggcta tgctatgcaa cttcattgtc tttcggatcg 240

gagaggggtg acgtacgtg attgattgat gctgcgagat gcatgtgtgt cttttgtttc 300

acgttgcatt gcataggcaa gtgcagatga tgagttggcg ttgtacacta agatgaacca 360

tgtttgtgca atagtgggtg gttttgtttc ctgcttgta aattgtgata tccattaatt 420

tgtttttctt ctat 434

<210> 35286

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A10

<400> 35286

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ggcacggatc tctttaacat gttgtcaatg gatggaacaa cagagaaaga gtcagcttca 120

tcttcaaacg acgataatgg ctgggatggc ttccagtctg cacaaccagt acctagtcca 180

gagaaacaag attctgccaa accagcagaa agcaagaccc agtctacatc tggaatggaa 240
gacttatttta aagactcacc agctgtgcc a ttatcctcag ctccagctga ttccccacgta 300
aacgctaaga atgatatcat gagtttgttt gagaagctat gctttgcagt ccaatatggg 360
atcacctttc gcttgccatc aacagcagct tgcgctcatg tctcagcagc aagc 414

<210> 35287

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-A11

<400> 35287

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gtttcaacag taacatccct tttggtaact catacatggg acagcgtagc agcattggct 180
ctccatgact cttctatgct attaaggaat catgcaatgg cattgcttac tgaatatgtg 240
ccttttgttg ataggaagca cctgcagtcc ttcctttcat ccagtaacgc tatcctgact 300
ggcttgggac aactttctgg tgtaattgaa aagggctatt ttacacgaat gtctttgctg 360
atgttttcta aggcattgtct ttatttcta cctgaagata tcgctttgat acctgaatgt 420
gtttggcaca agttgaaaac atgcaacatc aac 453

<210> 35288

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G8

<400> 35288

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tctctgccat gaccttgaca acgggatgca gccaatcagt gtctctttcc cgtacctccc 120
aatccctgcg cataagcgcc gtgacagggc acgggcacgt ttggcagaaa tctttgccac 180
catcatcaag tcccgcgaagg cctctggaca gtctgaggaa gacatgctgc agtgcttcat 240
tgattccaag tacaagaatg ggcgccccac caccgagggg gaggtaaccg ggctacttat 300

cgcagcgctc tttgctggac agcataccag ctcaatcacc tcaacctgga ctggagcgta 360
catgcttcgc ttcaagcaat actttgc 387

<210> 35289
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F11

<400> 35289

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tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg 180
accgaggaag cgccgggtgt ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct 240
gccccgcgcg ccgaggccaa ggtggaggag ccagctgcc ccgaggagac cgagccagct 300
gccgcgcgtg agcccagggc gggccccgtg gcggcggtat aagagac 347

<210> 35290
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F2

<400> 35290

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gccgaccaag aacgacacgc tcagcaaacg cctgcctggg ttcggcgcca ccatgaacat 180
actctacggc gagtcgatct gcggcaaggg atacgtcgac gccatgaacg ttataatctc 240
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tgattgcgcc gagcaggcac cgttcaacct cttcagtcgg actgatgacc agaagcagca 360
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<210> 35291
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F3

<400> 35291

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gacgtgccac ttggccggag agactcgtc ggtgcaagca tccagggtc caacaatgac 180

atcccagccc ccaacaacac actccccact atcatcacca agttcaagcg ccagggcctc 240

aatgttggtg atggttggtc accctctcaa gtggtcacac cattggtatg tctcggtgca 300

ctagtttccg gcagaggcta tacaaccaga caggcaatgg catggctgac agcacactgg 360

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<210> 35292

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F4

<400> 35292

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tgtgcctgtg gcggcggcgg ccgacgccct ggtcctcgtg tgctgctccg gcctctgccg 120

cggcgagcgg ctccaagcga gggagtgcga ggacctgggg ttcaccggcc tcgctctctg 180

ctacgactgc aacgcgctct ccgagttcgt caaggaccaa gagctggtgg aggattgcca 240

taaatgttgc accgaggatt cagatgatc tatcagcaag ctcacatttt ctggagcaat 300

tattgaggag tgcattgagga aactggtatt ttatccagaa gtt 343

<210> 35293

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F5

<400> 35293

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gggcggt

67

<210> 35294
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F7

<400> 35294

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gagcaacgca tcaagccttc tagaaccatc tcgccgcgcg cacaccacaa cccgtcgaag 120
cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc gttctggcgg 180
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tcgccgccgt ccgccactga gccgatgggg cctcgtgcct gcaggctacc tagcagtact 360
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gtagtagtga gaattcttcg gtgctgtcgt g 451

<210> 35295
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F8

<400> 35295

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ctactacggt acaagacggg caaccagatt ggttatggaa ccaaccaa atgtgcagcatg 180
cacaccttat tcaagtctgg tggcaccaat agatataatgc tatgtctagt taaattcttt 240
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gtatatatct ttgcccaatc atttcgtcat gatatgatat caactgatgg gtatagtttt 360
ggtcggaccc acggaaagca atgggaaaaa aatctactag gtgtgt 406

<210> 35296

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-F9

 <400> 35296

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 ggtgccccgc cggaggcaac tccaccacgg agccgtacct tgtcgcacac catctcatcc 180
 tttctcatgc agctgcggtc aggcgatacc gcgacaagta tcagcttcac cagaagggga 240
 agattggaat tctcctggat ttcgtgtggt acgaaccttt cagcgacagc aatgcggacc 300
 aggctgcagc acagcgagcc agggacttcc acctaggctg gttccttgac cccattgtac 360
 attgacggta cccgtacttg atgcaag 387

<210> 35297
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-G1

 <400> 35297

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 gccgtgggtg ccctgacccc aagatcagga tctacgatgt tggcatgaag agaaaggtg 180
 ttgatgagtt cccctactgt gtgcaccttg tctcttgga gaaggagaat gtctccagt 240
 aggctcttga tgcttgtctt attggcttca acaagtactt ttcctatatt gcaagaaagg 300
 atgcctttca ccttttggtc ctggttcacc cctttcatgt ccttcgtatc aacaagatgc 360
 tttcgtgtgc tggggctgat aggcttcata ctgg 394

<210> 35298
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-G10

<400> 35298

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gttgcatgag accgggaggc aactcctgat gctgcttttc ggactgatgt cgctaagcgt 120

gcatttggtg gttggatgag agatctacgt ggcatagcta tggcaaccaa cagccgcaag 180

acatatggcc tcctatttga ctggttgat ccactctgca tgccacttct gctgagagcc 240

atctcacttt gcactgatga accagaggtc accacaccct tgctcaagtt cacgtatgaa 300

tttgttttga acaaagctca aagactgaca tttgattcat catcaccaa tgggatcctt 360

ttattccgag aggttagcaa gataatcgtg gcttacgggt cacgaattc 409

<210> 35299

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G11

<400> 35299

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cggagcattc atacaacgtg aatggctata ctataatctc acctaagtta acaatgaaat 120

gaacgtcgct agacatcgca gggactgtga aaacactaac attacccaaa tta 173

<210> 35300

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G12

<400> 35300

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agattgggtg tattggaact gtcctgttg gacgtgttga gactggtgtc attaagcctg 120

gtatggttgt tacttttggg cctactggtc ttactactga ggttaagtcc gttgagatgc 180

accatgaggc tctccaggag gcccttcccg gtgacaatgt tggcttcaac gtgaagaatg 240

ttgctgtgaa ggatctgaag cgtgggtatg tggcctccaa ctccaaggat gaccctgcca 300

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atggctatgc cccagttctg gactgccaca ccttacac 398

<210> 35301
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G2

<400> 35301

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ctgctccccg gtggacctga tegtgatgga gctgtacgcc aacgaggtgc ccaagaccgc 120
ggagaacttc cgcgcgctgt gcacgggcga gaagggcgtg ggcaagtccg ggaagccgtt 180
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ctttaccggt ggcaacggca ccggcggcga gtccatctac ggcgagaagt ttcccgacga 300
gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc a 341

<210> 35302
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G3

<400> 35302

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agaggatgaa gcacggaaga ccgcgaagaa ggctcaggca agggaatatg gatattgagga 120
ggacaagtca gattcagatt ctgatgatga agggggagtg cgtaaggcag gaggtgatct 180
ggcagcacia gctattggca atgctcatgc agctgctgct ttggttgcaa acaaggctgc 240
taataatgca tgatcagcaa ataccaagat ctgcaacagc ccccttgatt cctttactca 300
cagcatcaaa ccaacaaaat gattgaggcc actgctcggg cactttaagc tgcaatggac 360
ttgcaacaaa atctggcaag gatacaggcc catgcagttc cagaacacta tgaagctgaa 420
cttgagatta atgatttccc ac 442

<210> 35303
<211> 157
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G5

<400> 35303

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ggagcatcat ccgggacagc gctgacatca agcctatgac atacagccag gacactaagg 120
atatgtctcaa gatctacaag gatcacgatac accacgc 157

<210> 35304

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F10

<400> 35304

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gccgccgcct cgtccatggt gtgggtccgc aatatccgtc gcttcgtcga cacgggcgcc 120
ggcctcggat ccgaggccat catggaactg gagactaaaa ggatattgct tgagattttc 180
aaggagcggc agcggaagag tgccgaggct ggttccatcc caagttttta caagaaacct 240
gaagaaggat ccattagctc tagagttcaa aggttggcca agtacagggt tctaaagaaa 300
caatcagagc ttctgctgaa tgctgatgat cttgatgcc a tgtgggtttg tctcagagaa 360
aattgtgtta tcgatgatgc tactggtgct gaaaagatga attatgaaga tttc 414

<210> 35305

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G6

<400> 35305

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gagagagaag tgctcccgtc ctttccttat cttttccttt cccttaggat cggacgatga 120
agatggttgc attttttaat ggccttatgc atttatgctg cttgtaatga actattattc 180
cgtcataact accagttact catcatgtgc tctttttttt attaaaaaat ggacttagtt 240

cttttcaacc gagccttatg ctagtaacct ctcaagtctg ccaacatatg caccaagcaa 300
 ggagatgga 309

<210> 35306
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-G7

<400> 35306

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 attactacca aactatacac atacactgtg gttgaaatat tattctattg aatctctgat 180
 cagccagaaa cattggactc gtaatttgga tgagatctgg gtattggctc ttgttcctag 240
 atcctgttta ttgaaactta gtgaaaaaca tgtc 274

<210> 35307
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D2

<400> 35307

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 aaaaaaaaaa aaataaaaaa aaagtgtctga cggcttcttc cccctaacca cgcgaggcag 120
 aaccctgctc ccaggagggg ggcttgccgc tgtccccaag gagttcctgc cgctggctac 180
 caccactct cggggctttc tggcgccctc atgggcaagg acggttt 227

<210> 35308
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D4

<400> 35308

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tgcggcgcgga cggcaccacc cggttccggg acgcgcgggg gagcccgctg cacgacctcc 120
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 accccgccgt gccgccaag ctgcctgcc tcctcagctg cggcgccggc accggggtag 240
 gagcagcgtg gaggtctgcc aagggtggagc caggatccac tgttgcaatc tttggccttg 300
 gatctgtcgg tttggcggtg ggccaaagcg cgaaaatgtg t 341

<210> 35309
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D5

<400> 35309

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 tgagcataca cgcccaactt catggacagc acgcagcaga gtgcaatctc agttgggaaa 180
 gaaggatgaa gatcgccgtc gattccgcag aagggatcgc ttatctgcat caccatgcga 240
 cgccacacat cattcataga gatgtcaagg ctagcaacgt tctcctggat tcgaatttcc 300
 aagctcgggt tgctgacttt gggttcgcca agctag 336

<210> 35310
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D7

<400> 35310

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 ggagactcct gcggtcgagc aggaggcagc cgccgaggag gaggctgctg ctgctcctcc 120
 tgctggtgcc ga 132

<210> 35311
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D9

<400> 35311

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gaaagagcca aagagaagga ggagaaagat cttgtggctc agcagaacat gtatgcgcaa 180
ctgcttcctc ttgctctgcc tgctccgcca atgcccggca tgggtggccc ttcacctccg 240
atgggcggaa tgggcatgcc tccgatgggc gggatgggca tgccgccgat gggccctggt 300
ccgatgccag cattcgggat gccaccaatg ggaagctact gagatgagat gtttt 355

<210> 35312

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E1

<400> 35312

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tgaccggtct ttagaccccc cctgccccag gcgacgacga aaccagcagc gctgcgcagc 180
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cgtcgcagcc tggaaccgtg tttcccaggg cggaaggact tgggctcaga ttcggcggat 300
cttgggctgg tctcgtgcat tcgagccgct gcaagccttt tggttaaccg gttttttcga 360
gggaaaggga acctaaactg gttggggcac tttggg 396

<210> 35313

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E10

<400> 35313

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gtgagataca aatctgaggg ccatgctact ataatcctcg ctggtgctga gtatggaagc 120

ggcagttctc gtgattgggc tgctaagggt ccgatgctcc tgggagttaa agctgtaatt 180
gccaagagct ttgagcgat ccacagaagc aacttggtgg ggatgggaat cattcctctg 240
tgcttcaaag ctggtgagga tgctgattcg cttggcctca ctggacatga gcggtacagc 300
atcgatctcc ctaccaacct cagtgaatc cgtcccgcc aggatgtgac tgttactacc 360
gacaatggga aatctttcac ttgcatcgtt cgctttgaca ctgaggtgga gctggcgtag 420
ttcaaccatg gaggcaccc cc 442

<210> 35314

<211> 407

<212> DNA

<213> Zea mays

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<400> 35314

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gcgtgggttg ctcagatgga acctttgcaa gggcagctgt tcccagtgga gcatcaactg 120
gtgtatatga agctctggag ttgagggatg gtggctctga ctatttgggg aagggtgtct 180
ccaaggtgt gaacaatgtg aattctgtta ttggacctgc tctgattggc aaggacccta 240
cagcacagac tgagattgat aacttcatgg ttcaacaact tgatgggacc aaaaatgagt 300
ggggatggtg caagcaaaag cttggtgcta atgcgattct tgctgtgtca ttagcttgtt 360
gcaaagctgg ggctagcatc aagaggattt ctttatacca gcacatt 407

<210> 35315

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E12

<400> 35315

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tcctgtgctg ctgcaggtga aatcttgggt gaccgttatc ctcaaattggc caacacctgg 180
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ttcaattctg ccaccgtcac attggtgtat ctccaaattg tcggactgca gaagatactc 300
 aggtgcactt tgcaaaagcg tccatatgat gtgcttgcc tttgcaagct atgatgtttg 360
 gtacttggtg t 371

<210> 35316
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E3

<400> 35316

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 atccagcaca ttcccatgac gtgccacgcc agcctgctgc tgccggcgct cgccgccgtc 180
 ctgctctgct gccccctgc gcaatgcggg cagcagaact acacctccat gttcagcttc 240
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 gtcggccgct acccctacgg catcacctaa cttcaccggc c 341

<210> 35317
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E4

<400> 35317

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 agactcgaaa aacgaacaag tggttcaaag agttctttga agtattgaat acattgagtt 180
 tggaacaaat taatgaacaa actcggcaat ggcattgccc ggcattgcaaa aatggacctg 240
 gggcgattga ctggacataa ggctgcagcc tttagttagt catgctagaa caaagggttc 300
 tacaagggtt aaactttaca gggaattggc tgcattgctg gagaggagct ttctcgcagg 360
 ggaacttagt ggtactcagc ggtgaacaat ttgggaaat 399

<210> 35318

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-E5

 <400> 35318

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 aagagaaagg gtagagaccc ttgaaaaagt agctgaagaa gctatgttgg agctagatag 240
 gttgatggca aaaagagagg aagagaagaa tattctggtc aggggcagag ctgctgttga 300
 gtctgaaatg gaagttctgt tgaagttgag gagtgaggta taggaacagc tgcagaacgt 360
 actgagcaag aaagtggagg tgtcgttcga gaagagtagg attgagaaac t 411

<210> 35319
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-E6

 <400> 35319

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 catcagatta tgcttgatca tagcactgga cgttcacggg gctttggatt tgtcacattt 180
 gaaagcgagg atgctgttga aagggttatg tcagagggga gaatgcatga tcttgagggy 240
 aagcatgttg gaattaagaa agctgaacca aagaaacctg gcgctgggtga ttcaagctca 300
 aacggaagac acagccgtgg tggtggtcat cgtgattcat accgtggtag tggtggttct 360
 gtgaacagcc gtggcggcta tggatattgg ggtggttacc gatcagctgc tgcagcatat 420
 tatggcagca cagcatatgg tg 442

<210> 35320
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E7

<400> 35320

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gtgcaagcac ttacctaata aaaggagctc atgaatatgc acataagtta ccgaagggca 180
tatggttgctc ttttgatttt gcggatgcac accctgatct gccggtgctg tatctacaag 240
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atgacctgtc actaattatc gcattgaatg aaaatggtaa agctgaaggt gttctctttg 360
aagatgcggg agatggatat gcattcacac aggagacta tcttttgaca tattatattg 420
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<210> 35321

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E8

<400> 35321

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tctgttctgg cagcaattat tcactctcag tggcacccaa ttatgcatga gttcggctta 180
tcaccacaaa tccgatggcc agacggagcg cgtaaactag tgcattgaaa cttatttgcg 240
atgctttgtg cagcctgtc ccagcaaatg gtaccaatgg ttagctgttg cagagttctg 300
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<210> 35322

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-E9

<400> 35322

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tctggcttga ggcagcgttt ggcacatgaa aggaaatggg cccttggtct tcagtctcga 120
gcacatccac gagaaataat aagtgaagtg cttaaagctc tgcaagaact gaatgtttac 180
tggaaaaaga ttggacacta caacatgaaa tgcagatgga gtccctggctg ccttgagagt 240
atgatgcata acagtgatag cttcagtgcg gagtctgcta taattgaaac tgatgttttc 300
atggagaaaat caaccccgac agtgaagttt gagattcagc tttaaaaaac gagggatgag 360
aagtaccttc ttgacctgca aagggtcagt ggatcacatc ttctctttct ggac 414

<210> 35323

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D12

<400> 35323

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gtctccccct ccgctccgca tccacagccc cgtcggcggc cagggccag cctctcccct 120
ccgccgcgcg gccacgcgc atcccagcgc gactttcggg tgccgcgggc gggggcgagc 180
agcagctcgt caccgcgcag gaaccggcgc acgaacctga ttatggagtt gtcagcattc 240
accatgtcgg gatcctgtgc gagaatcttg agaggtcact ggcgttctac aaggacctac 300
tgggtctgag ggtgaatcca gctcggccaa acgacaagct cccgtacagg ggcgcttggc 360
tctgggtggg ttctgagatg atccacctga tggagctgcc gaatcctgat ccgttgaccg 420
gacgccccga gcacggcgga cgtgatcg 448

<210> 35324

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-F1

<400> 35324

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aagataattt acatgtgccg atttaattta tcattggaca atatatactc tttgacaaaa 180

cccttgattc atcaaaattc ttgggttttt atctctggca tattctaaaa tattaaacgg 240
atattttaac ttatgtattg tctatttaat attgatagaa atcaaccgtt ttattccaaa 300
aactttgcct ttgctttttt tcattacctt cctatataga tgcacaatat gcatctaaac 360
tttctataat ttacatcta tagctttatt g 391

<210> 35325
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-005-Q1-K1-B8
<400> 35325

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gcgtagttcc ttttttttta ctttgtttgt ttgtttgttt ttttaccatg aaaccaaagg 120
tcagcagatg gcagcagcaa gcaacagatt atagcgcttg ctctcctatt acattacatt 180
acatgatgca tttagcacta attagtagta gttactatta ccagcccatc taggtagctg 240
cttcttcatg accatgatat gcacagcagt actagggggg aggaggggtg tgtgatgcac 300
aagaagatgc tgctgctacc cacatgggac tacactggat gcagacagac gtgacagacc 360
agctggtcca gcgtgaagat ctcacaggat tagaagaaac anacgagtcc cgtctccacc 420
agtgtgta 426

<210> 35326
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-005-Q1-K1-C1
<400> 35326

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gggctacatg gccaacacgg aggcgtggcg cgccaaggcg cggctccaga gcgcgccccg 120
ccagcgcacc gacgcgctgg agcggctgcc cagccgcagg aagcagggga cgccgcccag 180
ggccgtcgcc aggatgcact tgcagcgctc gtcgtcgctg gccggcaact actcctcccc 240
gtggtcgctg tcggctgccg ggctcgacgt ctccgctagt tgcgctcaa ggacagcgag 300

tgcggtcca ccagcttcgt gtcaccgcc gtcacctct acagccggac gcggtcgctc 360
 gtcggctccg aggtgcgccg tggcctgtac tgagaggagc tagctcgtgt tcctggcga 419

<210> 35327
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-005-Q1-K1-C10
 <400> 35327

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 ctggagatag tatggtacac acacttctat ttgacatggt gttagagtgt taaagcaacc 180
 ataagagaca taagagacta gacaaatcat tttgtaaagg taaatttgggt tattatcaga 240
 aaaaaacatc tccaaccgac tttgtaatag ctcttcaaat ttagtagctc tctatctctt 300
 caccttcacc tttactttct aatctacttc acttgcgtgct attcagtttg ttggtttaca 360
 gagtctcggt tagattagtc tacttttttt ttttga 396

<210> 35328
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-005-Q1-K1-C11
 <400> 35328

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 ataaaagctt cttggggcgg tgaagagaag ttgctgagat tgctctgcag ctggagattc 120
 ccagtaccaa gacctctgt ctggatgtta caaccagtg gaacaccacc tatctgatgc 180
 tgctggctgc tttggattat aagcagactt tcactacact agaaacatgt gatgataact 240
 acaatgaagc tccatcagca gaggattgga agaaagttga ggctgcctgt aattacctga 300
 aactgctata cgattctgca catagtatca tggcggcagc aaaccaact ggcaacatct 360
 ttt 363

<210> 35329
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-C12

 <400> 35329

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 ctctctctgc ctggttctca tcgcttctct gattcttctt gccctttgcc ggagcaaggc 120
 taggcgcgag gagagggtgc tgtgctcaac cagaggatcat ctgcgctacg cgagcgact 180
 gcctgttgtg ctgcactgcc ggagtatcag gggaaaaccc tgaaatcatg gaaatcacct 240
 tattgcatga tgaatctgat gcatgaagca ccattttgct accgccattg ttgtcatatg 300
 gtccaagaac aatggttcca atacaagtac catcgctcatc aga 343

<210> 35330
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-C2

 <400> 35330

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 ctttcgcatt ttctttccaa tcaaacaatc ttgagtttga ctaaaaatgc atcaaagggtg 120
 catatcattg acttcggcat ttattttgga ttccaatggc catgcctaata caggcgtctt 180
 tccaagaggg aagggtgtcc acctgttctg cgcatcactg gaatcgacgt acctcagcca 240
 gggtt 244

<210> 35331
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-C3

 <400> 35331

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ggtcggatac tatggaggac ggaaggctag tcggaccgtg atgccgcttc gtggccagcg 120
 cgtggcgctg catgggagta cangtngcag cagccgtcca atcgccggc ctcaccatgg 180
 cccaacccgc cccgacaagg gcccgtcgtc tcggctacaa ggccaagcag ggatatgttg 240
 tctaccgtgt ccgtgtgaag cgtgggtggca ggaagaggcc tgtgccaag ggtattgtct 300
 atggcaagcc caagcaccag ggtatcacc agctcaagtt ccagaggaac aagaagtctg 360
 tcgctgagga gagagctgga cgtaagcttg gtggactgag gggtcttaac tcctactggg 420
 tgaatgaaga tagttcctac aagtacttt 449

<210> 35332
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-C4

<400> 35332
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 tgtaaagtgt tttttgtaca aaaggatcaa agaaacagat aagaggacag ttatgaggaa 120
 gtcacggtgt tagatccctg agcatgaagt tctcggtcga agatccatgt tgctgtagta 180
 acgatgctgt tccaacttcc tttcctgata aaatgacaat gtagaaatag ttctgaagtt 240
 tatgttgatt tggtgacagg tgggtcaatt gtgatcctgt acgattgtta tgaatccctc 300
 ttgttttggt ttgatgttat atntgctctt aatttaaagc ttat 344

<210> 35333
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-005-Q1-K1-C5

<400> 35333
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 tgaacgcagt cttcctgctg ggcgaggccg ccctgaatag cttgaggttc ccgtgggttc 180
 gggtcgcta cttcttctc tggaccgcgc tctacgtcgt cttccagtgg atcgccacg 240

cagctacgcc gatgtggtgg tctttcccggt tctctgacct gacatcgaac ctggcacctc 300
 tgtggtacct ggcggtggcg gcgctgcagc tgacgtgcta cgtggtgttc tggctgctga 360
 tcaaagtgga acaccacctg cttgccaggt gcttttcggt ctcgtagcta cgctagctag 420
 gggctatggc acaagcc 437

<210> 35334
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C6

<400> 35334

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 gggcaatggc ggccacctcc gaggaggcaa tcaagcagtt ctcggcgctc atggagcagc 120
 tagaggagcc gctaaagagc acattccaga atgtgcatca aggaaatctg agagggactt 180
 tgatgcgttt tctgaaggct agagaatgga gtgtgcctaa agcttataaa atgctaattg 240
 attgcttaaa ctggagagta cagaatgaga ttgacatcgt gttagctaaa cccattctgc 300
 catctgatat atatagaggt attcgg 326

<210> 35335
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C7

<400> 35335

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 ctgccaacag gccggaccgg acaggaccag ctatcccggt ctgctcgcg cttctacctgt 120
 tccccgcgat gcatggcatt ctatatcaat ggacttcatt gaagggttac cgaagtccgg 180
 aacaatggat tgcattctgg tgggtgtaga tgcattctca aaatatggtc atttcttggc 240
 gctggccac ctttttctg cagcaaagggt agcaaaactt ttcttggata atatctataa 300
 gcttcatggg atgccggaca atatagtatc tgatcgggat agagtgttca caagtctgtt 360
 ctggcagcaa ttattcactc tcagtggcac ccaattatgc atgagttcgg cttatcaccc 420

acaatccgat ggccatacgg agcgcgtaaa ctagtgca

458

<210> 35336

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C8

<400> 35336

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ggcgagtgcg actccacctc cggtcacat cctcagcaga ggcattgggt ggcagggaat 120
cggcatcctc cttgacgggc tctttggaac ggggactggc tccactgtct cagtggagaa 180
cgtcgggttg cttgggtcga caaggatcgg gagccgacgg gtcatacaga tctcagctgg 240
cttcatgaag cttgttctcc atgctgggga aatttggagc cttgttcgct tccatcccgt 300
tcaccatctt tgcggccgtg tctgcgtcc tgttcgggct aagtgcgtcg gtggggctgt 360
ccttcctaca gttaactaac atgacctcca tg 392

<210> 35337

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-C9

<400> 35337

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ggtgaagaag gtgaaagtga cccagcaacc cagcaaccaa gggaagcaga ggaaaactga 120
tgaaaactgga gcaactgctg gcaaagctaa ggcacccgct gtggctgcaa gaaaagcaaa 180
gcagctggcc aagaaacgca aggtggatgc atcaaccctt gagaatacac acaggagcaa 240
gaaaccaaag aagtaagttg tccattgcgc tggtcatttg cccttgcttc gcattgtaac 300
aggagtttca ctaaatacaa ttctggacga tcttgtcaga tgattggtgt actaggtaga 360
ggcaatgtg 369

<210> 35338

<211> 368

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-D10

<400> 35338

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 gtcctcgccg gcgacgccgc ggagtaggtg caacagaaac tgctcgaggc ggaggcggag 120
 cctgcggctg cacagacatg ggtgatcacg aggcgcgcgg tgatgacttc gagaagaagg 180
 cgagagaaga gctctcgggc tggggcctct tcgggtccaa gtacgaggac gccgccgacc 240
 tcttcgacaa ggctgcgaac tccttcaagc tcgccaagaa ctggagcaga gctgcatcag 300
 ttacatcaa gattgctaac tgtcatttga agggagatag caagcatgag gcttgcctag 360
 cgtacgtc 368

<210> 35339
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B7

<400> 35339

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 aggacccata ggccatgggg ttatgcaatc caaagaagga aattcctgct tgagccaatt 180
 acagaaggcc ctgatatttg tcaaattgat gggtgtagtg ttaaattgga atacaagagg 240
 aggcaagtca aatatggttt gtgtgacagc acgttactaa cttactctac tataatctgca 300
 tgagaaagga tgaaccctgt ttgcatgtat actaattaat ctacggattc attaatgggt 360
 gaataagatt ttattttaatt atgacagcaa acgtgacatg ccattacaat attcggtatg 420
 ccaaaaaagt agttgcttat agtta 445

<210> 35340
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A12

<400> 35340

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gtgaatttct gaaatcgatc tggccttctc tatctgatgt cattactcta gttagggttg 120
caccacgctg aagtatgatt gtgctaataa cttcac 156

<210> 35341

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A2

<400> 35341

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gcggcttccg gcgtcgggcg tgttccagag cctggacgcg agcgcgctgg agggcaacct 180
gggcatctgc agcccgcctg tggcggagcg gtgcatgatg aacgtgcccc agccgcctgg 240
gctggaccac atcgagtaca cgcacggcgg cggcggcgac aacaacaaca tggagacgaa 300
cggcgggtggc gtgggcgcgc cgaggaagcg gcggttcctg agcgtgtccg gcatggtggc 360
catctgcgcg gcggtcgcga tccgtcttgg cgtcaatcgt gatcacgctg c 411

<210> 35342

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A4

<400> 35342

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agcacaatca gccgctgcaa tcgaggctat tctctactt cagtacttga tacagtctgg 180
cccaccggcg gttcaagaaa aggcagaatt gcttcttcag tgcttgctg ggactcttac 240
tgttacgata aaacgttgca acaatctaaa gcaatcagtt ggaaacccta gtgccttctg 300
caagcttact cctggaaaca attcgccaag gctgacaaag attgtctcga ctggtgcaac 360

acctgaatgg gatgaagcct ttgcatgggc atttgac 397

<210> 35343
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A5

<400> 35343

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cgcgacttct gttcaaccag gcgttcagca gaggtttgga gatatctctg atccttgctg 120
gcaacaatcc aaatgctggg atctgatggg ggcagttccg gccttgcttc attaactctgt 180
ggacctttcg tacttgaatt aatcctcact tctcaagtta acagtagcga tgtacatatc 240
tgatatgatg gatgtgcacc ggagttgttt gccgtgtgta taaatatcaa cggctattat 300
tctagagttt actggcttgt cccttgattt ttttaacggg atgaactttt gtatgggccc 360
tttctttgac attgacatat g 381

<210> 35344
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A6

<400> 35344

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attatgcatt tcgtcgtttg gaaacttgac aaaccgatta tacttgttta ggttgcttca 180
gaaaagatgc ttgagaaact gaaacataaa tctggaagat gtgagcctgc tttagaaaag 240
gctattgtgg aactggagca tgggtataaac ggtttgaagt attttgtttg ccttgatcca 300
cggttgtagg tttgttctgc cactgatacc aggtgaagct tcaccttca gatccctgtc 360
gtgacgaatg gttcgtgggt gctggggagg gattggatcc gttggattca tgagatgtgt 420
ggattgttcc tgccagatat cgtgacatgt gtttagatct a 461

<210> 35345
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-B10

 <400> 35345

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 acggcctccg gggctacgcc gcgcccaggt ccgcggtggc ggcgctgccg tccgtgaggg 180
 tgggcaggaa gaggtcgctc tgcagggca tccgtgcga ctacatcgcc tccgccacca 240
 acctgatcat ggtgacgacg acgacgtga tgctgttcgc ggggcgggtc gggctggcgc 300
 cgtc 304

<210> 35346
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-B11

 <400> 35346

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 gcgaggacgc cttcgatccg acccaggccg acgccgacga cccctctcgc cgccggcggc 120
 catggcgtag ggcgaccgcg tcaccacctt cgaggactcc gagaaggaga gcgagtacgg 180
 ctatgtccgc aaggtctctg gacctgtggt tgtggctgat ggaatgggtg gtgctgccat 240
 gtatgaactt gttcgtgtcg gacatgataa cctcattggg gaaattatcc gtcttgaggg 300
 cgattcaact tcaatccaag tttatgaaga aaccgctgga ctgatgggt 349

<210> 35347
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-005-Q1-K1-B12

 <400> 35347

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 tttgcagtct ttagctgggt ccacttttga cagtagccag cttgttttaa cagcttgcac 180
 gggatatcaa gctgtaggtg aagcaagact gcaagaattg agaaataaac accgaccatc 240
 tgctatctcc tcaatggaac agagagcaaa aggtcttcgt gtctggaggg atacgaacag 300
 gcttgcacat aggctatata attttaagcg tgacactgaa ccattgggtg cgttatcaga 360
 agaacagtca aatgacttga ca 382

<210> 35348

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B2

<400> 35348

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 aggaggtgga atctcagcat agagcagcac gcatatgata gggccaacaa gatctaggag 120
 ggcaacaggg acgatagggg tgcaaagcga tcgggataag acggcaaggt cagaagctcg 180
 cagatgagac catgatcaag catgtcgaga cgagt 215

<210> 35349

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B3

<400> 35349

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 aattctcgaa tcggcccctg gttctggcag ggcagccgcc gccggcggac ggagggccct 180
 ctttgcgggt gaggcaaggc gaggcctgct ttgcctcgct gtaagctcgc cggaggaggg 240
 gaccgttgag gggaaaggac gcgcgtaatt tgtggagtgg atgtgccaat gctgaaggag 300
 gcgcgccgcc gtccatggac gccgcgcggt gggtcgcgtg cctgctcgtg acggtcacat 360

gcttggcctg cgccgtcgac gtcgctacc

389

<210> 35350

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B4

<400> 35350

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cgagcaacgc ccgctaggct gctgctaccc gcagtcccca tccaccctac ccgcagtccc 120

caccgcaacc gccgcctcgg cccgggctgt gttgaccccc gttgacctcc gccagcccg 180

ccgtcatgga cctgcgcttc ccgccgacgg cgccgtcgtc ctgcttcggc ggaggcggag 240

tgctcccggc aacgtggcac caccgccgag cgcaatcgga gacgtt 286

<210> 35351

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-B5

<400> 35351

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gtgctgctgg tctctctcgt ctgctcctcg tcatcgctgt cggctgctgc cacgctcgcc 120

gtcagcgctc cgccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180

atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240

gggcgccact cgctcccggg gtggacgggt catggccacg tggagtacgt ctcgggcggt 300

ccncagcccc gggg 314

<210> 35352

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-B6

<400> 35352

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 gactggaaaa gaacatcttt tcttttatgg taggttgaag aatcttaaag gttctgcatt 180
 aatgaaggct gttgaccact ctctgaagag tgtaaatacta tctcatggta atgttggtga 240
 taagcaagtg aagaaatata gcggaggcat gaaaagaaag ctcagcgtgg caatctcatt 300
 gattggggac cctaaaagtg tcttcatgga tgagccaagc acaggaatgg acccagcatc 360
 aagaaataac ctatggaat 379

<210> 35353

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A10

<400> 35353

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 tatgtctgat gagcagtgtt ggcaatttta tgaaaaatat gtatgtaaag agaactcctg 180
 aaatgagcaa agacatacac atttactcta gtgctctgaa ggcgacacta acttggcaga 240
 atatgattac gattcaggag tgctcgcgagg cctgtggagg tcaaggctta aagactgaga 300
 accgcatagg aattttcaaa tctgaatttg atgttcagtc cacatttgag ggtgataaca 360
 atgtgctaata gcagcatgtc agcaaagcgc tttatgctga atttttgcgt gcacaaaaga 420
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<210> 35354

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-G3

<400> 35354

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gcgcnaaggcc tacgacgccg gctgcgtccg tgccgtcctc gccgagctca tcctcacctt 120
 cctcttcgtc ttgcgccggcg ttggctccgc catggcaaca gggaagctgg ccggcggcgg 180
 cggggacacg gtagtggggc tgacggcggt ggcgctggcg cacacgctgg tggtagccgt 240
 catggtgtca gcggggctgc acgtctccgg cggccacatc aaccggccg tgacgctggg 300
 cctcgccgtc acggggccga tcacgctgtt ccgctccgcy ctctacgtgg ccgccagct 360
 gctcggttc acgctcggt gcctactcct cgctttcctc gcagttgccg acagcggcgt 420
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<210> 35355

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G4

<400> 35355

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 cggggctgcc ggcgggcggcg cgcagcatgg cgtgtggagc atcatcacc ggcccatgtt 120
 ccagagcatg ctgagccacc gcggcgacag cgggtgccag ggcgccttct acacctacga 180
 cgccttcacg gagggcgcca gcaagtccc cggcttcggc accaccggcg acgagcagac 240
 gcgcatgcgg gagctcgccg acttcttcgg ccagacgttc cacgaaacca ccgggggatg 300
 ggcgactgct ccggatggac cgtttgctg gggatactgc cgggtgaagg aacataaaca 360
 gacgggcccc ccctac 376

<210> 35356

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G5

<400> 35356

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 atggtatgaa tttttttgac ctgaatgcat ggaggaagac aacaatcaaa gatcagtatc 120
 atcattgggt caaggggaac ttgaagtcaa acttcacact ttggaagctt ggaacattgg 180

caacaagcct tattggcttt aaaggccatg ttcacccaat tgaaccatca tggcatctgt 240
taggcttggg ttatcaagaa aagatagatg tcagtagcgt tgaacaagca gcagttatac 300
attataacgg gcaaagtaaa ccgtggctgg agattggttt taaacatctt cagccatttt 360
ggacaaaata tgtgaactac tcaaatgaat tcataagaaa ctgtcatata atgg 414

<210> 35357

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G6

<400> 35357

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gagcggcgct ggcggcgggc agttcgctgc caaggactac acggaccctc ccccggcgcc 120
gctgatcgac gcggctgagc tggggtcctg gtcgctgtac cgcgccgtga tcgccgagtt 180
catcgccacg ctgctgctcc tgtacatcac ggtggccacc gtgatcgggt acaagcacca 240
gacggacgcg tcggcgctcg gtgccgacgc ggcgtgcggc ggcgtggggg tgctgggcat 300
cgactgggcc ttcggcgcca tgatcttcgt cctcgtctac tgcaccgtcg gcatctcggc 360
gggccacatc aaccccgacg tcaccttcgg ccctttcctg gcgcgcaagg tcctcctggc 420
gcgcgcgcg 427

<210> 35358

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G7

<400> 35358

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gttcattgca gctgggaagc tgcactgcaa gattgataag gttgctgggt ttctggagac 120
taaccgacct gatgagagga atgctttcta ccaggcgacc atcaagcaag gggacttctt 180
gctgaaccgc atccagaagc tttcacgggt cattgacctg taaggactgt ttgtgttgga 240
gctattcctg caatcggcgc ctgcaaatgt ttcccacct acgtcttcca caagacatct 300

ctccttgagt ggggattggg gaacaagccc taagaacatc tgtgttttaa gtgcagaata 360
 tttgtgtttt aatcagtaaa cgctgtccaa aaaaaaaaaa ttgcccaaga tct 413

<210> 35359
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H10

<400> 35359

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 ctacgccggg tggtctgtag acccaggtcg ttgccgccta cgccaggtgc ccaaattcttc 120
 ttagggccct tcgccggcga cgagcacaca agcttggttg accccaaca aattgcaaaa 180
 tgtcagccaa tgtcggtgaa tcaaccagcg gtggcagcag caatgatgca gctgggggga 240
 gctttgaatg taacatatgc tttgagctgc ctcaagagcc aattgtgact ctttg 295

<210> 35360
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H11

<400> 35360

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 gcaattcata acattgttca gacaggttac cacggcagaa cacgtacaag cccagacgag 120
 cactgtacat agctacaata agtcttctga catcaccaag atgaccaca aaacgggtac 180
 tgacaagata tagtacaatg aatcatcttc gctggccctg gaacttgtcc acaatggtaa 240
 ccttggtagg gggctcaata ttccatggtt tgcattctct gatgacaca tcacgaataa 300
 taagcttctg acca 314

<210> 35361
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H12

<400> 35361

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gcagtgggtgc tgttgtaact gcagaatgca ctgtcacaga actttcactt ggagatcttg 180

aagggtcttct gctgcaaata gccaatgacc agcacatggt cgaatcccaa tcagatcttt 240

ctgcaccaac tccacatcat aacttgaatc aagcttacat tggggattta catgaatctc 300

atggtgctcg ggttggaat ccttcttgta tagttcagga aagcacattt tgtgaaccac 360

ggacttgacc aaatgatcaa tttccacagg ctaatgtaac c 401

<210> 35362

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-H2

<400> 35362

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atagtagagg attcttatca tgcgttttgt attctgacct ttgcttggtg tgagaccag 180

tccacatgaa gatgtttttt ttatttgta ttgatacttt cagcagcttg aagcatataa 240

ttatatgc 248

<210> 35363

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H3

<400> 35363

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caatggccgc cggcgatcca tcccgtaacg cgacaccatg agggagtgca ttctgatcca 120

cattggccat gccggtatcc aggtcggaaa cgcgtgctgg gagctgtact gccttgagca 180

tggcattcag gctgacggtc agatgcccgg tgacaagacc attgggggag gtgatgatgc 240

tttcaacacc ttcttcagtg agactggtgc tgggaagcac gtgccccgtg ctgtttttgt 300
 tgaccttgaa cccactgtca tcgatgaggt gagaactggc acctaccgcc agctcttcca 360
 ccctgagcag ctcatcattg ggaaggagga tgcagtcaac aactttgccc gtggtcacta 420
 caccattggc aaggagattg ttgacctgtg 450

<210> 35364

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-H4

<400> 35364

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 gcgctgccgg ccagaagggtg gacatccgcg tcgcctcttc tgctgcccct tccgccgcac 180
 cgtcgccgac cccctacggc tccaagccct gcggcgggcg cacggtcgcg ccgtcgccgc 240
 accctaacgc cgcgccgaag gccctctccg ccagctccgt agccgcgggt gtcgccacgt 300
 ccctgctctc cctggccgcg gccgtgctgg catgatcact tgatcaggat cgcgtagtgc 360
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<210> 35365

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-H5

<400> 35365

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 cggcgcgcaa gtcgacgggc ggcaaggcgc cccgcaagca gctggccacc aaggcggcgc 180
 gcaagtcggc gccggcaacc ggtggcgtga agaagcctca ccgcttccgc cccggcaccg 240
 tcgcgctccg ggagattcgc aagtaccaga agagcacgga gctgctcatc cgcaagctgc 300

ccttccagcg cctcgtccgt gagatcgcg aggatttcaa gaccgacctn cgcttccagt 360
 cctccgctgt cgccgcgctg caggaggccg ccgaggccta cctcgtgggg ctcttcgagg 420
 acaccaacct ttggggccatc cacgccaagc gcg 453

<210> 35366
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-004-Q1-K1-H6
 <400> 35366

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 gagccaagcg gagctggagc tgcgatgaag aagatcttcg gcgccaagga aggacaaggg 120
 gcccggcccc cttcattcaa gacgcccccg aacgcattaa ccaaccgggt taaaccgggg 180
 ccagaagatc caaaacttga ccaggagctc tccccgtgca cagggcacat cccaagacc 240
 cgtcccgggc cgttccaaga agccatctag gcacccgcca tacgactcct caagcacaag 300
 cgcattgtacc acgagcaacg caacatgttg tacaacaaa cctacaatct cgaccaaatt 360
 ggctttgctg ccgatggcct caaggatgct caacagacta tgaatgccat gaaggcagca 420
 aacaaggagc tcattggaat gatgaaa 447

<210> 35367
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-004-Q1-K1-H8
 <400> 35367

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 tcccttgcaa gttcagtctc gcctccaacc atgggtaaaag agaagtcca catcaacatt 120
 ggggttattg gccatgtcga ctctggcaag tcgaccacca caggacacct tatctacaag 180
 cttggaagca ttgacaagcg tgtgatcgag aggtttgaga aggaagctgc tgaaatgaac 240
 aagcggtcct tcaagtacgc ctgggtgctc gacaagctca aggctgagcg tgagagaggt 300
 atcaccattg atattgctct gtggaagttt gagaccacca agtactactg cacggtcatt 360

gatgcccctg gacaccgtga cttcatcaag aacatgatca ctg 403

<210> 35368

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G2

<400> 35368

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cctcgctatg caaactaatg gagtattgtt tgagtccagc tgttattacg cttcaggacc 120

gcctgaagga aatgaactt cggctatcta tgttaaaaga ggagtgtgtaag caactggagg 180

ctgataccca aggcattgaga aatgggttctc ctgcgtgcct catgaatcac ggagctggtg 240

gcagcgggttc acctatggct cagagcaggc atcctttctc cagccaaggg agccctagaa 300

gcccgcgcgg cggcagccgg aggagggtt gatgatgac ttgctccgcc tgatgcgttg 360

atgaactgtc cgttgtggct taaccagatg ctttctgaaa acccagatat ttgacggacg 420

aagtgcccag acaacagaca ctgtacctgt acataccc 458

<210> 35369

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-H9

<400> 35369

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gccaecgcgt ccggccacgc gtccgtccac gcgtgcgccc acgcgtccgg tacttccaaa 120

gttccacagt tccactgcac agatcgtcgg cggcggcgca ggcaaggcca caatgtcttc 180

ggcgcgccagc agcggcaagc gcgggagggg tcccgcaccg gaggaagacg tctacgtcga 240

caacctccac tcccacaagc gctaccttac cgagataatg gcatccagca tgaatggctt 300

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<210> 35370

<211> 224

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-005-Q1-K1-A1

 <400> 35370

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 caacacgatt gaaccttatg cgaaaatgaa cgagaactgt ccgtccttgc cctcatctta 180
 caaacgaccc gaacgctgct gactacgaga ttgtctacta tgta 224

<210> 35371
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-E7

 <400> 35371

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 gcacacttaa aatgacgtat ggcctatcat actaaccat cataaacatc tccttgacta 120
 atctttatct acacctgcac aactacaagt tcacatcgag ataaacctgc ctgatgaaaa 180
 tgctacgctt caaattcttc atattcatatc atataatact aatgataatt ctctactatc 240
 accagatatt aatctacttg at 262

<210> 35372
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-004-Q1-K1-E8

 <400> 35372

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 ccgctggagg tcatagcgcc ggatgtcaag tccaagaagc gcaatccggc gcccgagatt 180
 cgggttggtg gtcgccggat ctacgatcca gagaatggca agacctgcca ccaatgccgt 240

cagaagacaa cagacttcgc agcggcgtgc aagcaagtca agaagaagg tccgtgcccc 300
 gtcaagtatt gcctcaagtg cctccttaac aggtatggcg agagtgccga ggaagcggcc 360
 ggcaaggaag actggatctg tcctaagtgc atgggcatct gcaactgcag cttctgtaga 420
 aaggagaaag gccagatgcc aactgggata atggcccaca 460

<210> 35373

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E9

<400> 35373

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 tcaacagggt gcattaagcc gggatgcata tcctgatgct gcttttcgga ctgatgtcgc 120
 taagcgtgca tttgttggtt ggatgagaga tctacgtggc atagctatag caaccaacag 180
 ccgcaagaca tatggcctcc tattcgactg gatgtatcca tctcgcatgc cacttctgct 240
 gatagccatc taactttgca ctgatgaacc agatgtcacc acacccttgc tcaagttcac 300
 gtttgaattt atttttgaac aaaactcaaa aactgacatc agatttatca tcaccaaa 358

<210> 35374

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F1

<400> 35374

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 aagtgatcag gagcgcacac attgacacaa aggtgcgagc agggagaacc atcccacgga 180
 ggatctacat gttcacagat ccaggatccc cgggcaggaa acatgttgcg agagcatcac 240
 atgagccgaa agcagagatc acaacatctg aaggaaaaca tatccatgaa attcctgttt 300
 ccaggaatgc aagcc 315

<210> 35375
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-F10

 <400> 35375

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 cttattatct ttcagtcgt gccatacttg atcctcgcta tcttttacac tttctgggtt 180
 tcagcagcac ttcactcttt cagcgctgt caagttatac aaaatgattg caatacagat 240
 tgctgttctt acgatctgaa acttggcaaa gttaaattgtg acagatgttg tggctacact 300
 atccattaca cccacatat tggcatcgcc attcttttcc atctttttgg ctgttactgg 360
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<210> 35376
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-F11

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 ttatatgctc atgtggtggt tcgggtattg acttaagtct ctggctaaag aaagtgaac 180
 accacctatt acggcttctc ctatatataa aatatatatg tagcagattg ttttcaacca 240
 tcttgtgaag agttctgac ttttgtttct tcgatatagc gaaatatata gatgagaatg 300
 tctctgtggt tgtaacgttt gtgtagtggt atttccgttg agttgatata tatgacatgt 360
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<210> 35377
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-F12

<400> 35377

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ccattgatcc ttaccttgtc tcacaccatc tcatcctttc ttatgcttct tttgtcaagc 180

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tgtggtacta acctt 255

<210> 35378

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F2

<400> 35378

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<210> 35379

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-F3

<400> 35379

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gttcaagatc ttctgccgcy ccaacgagaa ctactgcctg gccgtccgcy acggcgccgt 180

cgtgctgggc cccgtcaacc ccaaggacga ccaccagcac tgggtacaagg acatgcgctt 240

taacacccgg gtcaaggacg aagaaggcat gccggcgctt gcgctcgtca acaaggccac 300

ggggctcgcc atcaagcact ccctcggcca gtcccacccg gtcaagctcg cgcctttcag 360

cccgaccag gaggacgcgt cgggtgctgtg gacggagagc aaggacgtgg gcaagggctt 420

nccgtgcatt cggatggtca acaacac 447

<210> 35380

<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F4

<400> 35380

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cccaaactcg acgcgcaggt acgagaatta gccaccagcc gacgggatct cgatggcgag 180
ctccgcgtag cagaaggaca agagcagcac cgccagggtcc ccaaaccatt ttcgcgcggg 240
tataaaaggc tatcatgaag ctttctgggtc aaagtcccaa aagaatgaga gacctatcaa 300
atcagcaagc ccgaggactg ggaatgtaag ccaacgccaa aaaagttctt cgtctgggtc 360
tacggcaccg atgagatgtt tatgcgccat cctgagtatt ccagctttcc tatatggaca 420
gtttgaacct aaggtttgct gtgtaatcta atatcaacag ttgcactc 468

<210> 35381
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F5

<400> 35381

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ggtcttgata cacgtgcacg aagggtacta ccaaagctc gcacaagcac tcatccaggc 120
tgagcacaga ttgaaggtcg agaacggtct ataagagagt acacctcagg gccccctgat 180
taacgaaact gctgcgcaaa aggtggagaa gaccacaaaa gacgcaacct ctaagggagc 240
aatgtcatg ccaagacgga aaagacac 268

<210> 35382
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-F6

<400> 35382

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 gcctgaggag attaccaaag aagagtatgc tgctttctac aagagcttga ccaacgactg 180
 ggaggagcat ctgcgcgtta agcacttctc tgttgagggt cagcttgagt tcaaggctgt 240
 cctgtttgtg ccgaagaggg ccccttttga cctcttcgac accaggaaga aactgaacaa 300
 catcaagctc tatgtgcgcc gtgtcttcat catggacaac tgtgaagagc tgatcccaga 360
 gtggctgagc tttgtcaagg gcattgttga ctctgaggac ctccnctca acatctnccg 420
 tgagaccctt cagcagaaca tgatccttaa ggtcatccgg a 461

<210> 35383

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F8

<400> 35383

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 gtagcactag atacacgaga gctattttac agttttcata ctgatgatgt gcctgcagaa 120
 tcagttatgc acaaattgtgt ggtccatttc attcctcagc aaaaacagat tcccagtcta 180
 aagcagcatc cgggatttat tgtccagaag gtctatgatg cagttgagaa gaaactgtgg 240
 aacctaacag acaaggacta tgaggataac aagcagcaag agattgatct tctggttaag 300
 aaaacaatag accgtattgg gcagcttctt gatctcgaac ctgaagagac acctcttgag 360
 aacaattatt tgtcaaataa acgaggcctg cgtaagaaac ctgttaaccc ta 412

<210> 35384

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-F9

<400> 35384

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ttttaaacia tatacaagga ttatgtccca cagtgtcat gaaggacata atggatgaga 180
 atattttatt tcaacttctg ctgttatgtc tttctataat cttttaaaact agtctcactt 240
 gctctatatt cttaaaagct gctagcgatg tgtatcatct ttattgggtc ttgacacctc 300
 taaactgctt catttgtagt gtgatctggt ggccactttg aaaagcatga ataactaatt 360
 agcattgatg accgaaatat ttttctttgg aacctaaacc ttgtcaatta attaa 415

<210> 35385
 <211> 128
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G1

<400> 35385
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 ccatacgcac ggaccaggtt aagggtactg tctatattgc tgcccgact aggtcccaaa 120
 acacaagc 128

<210> 35386
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G10

<400> 35386
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 aaggcaggcg cgccgggggg gtcggcgggc cagctggtga ctctcgggct atcactcctc 120
 tgcgtgtctg ccggcccggc cgccgcgcag aactgcggct gccagccaaa cgtatgctgc 180
 agcaagcttg gctactgctg cacgaccgac gagtactgcg gcgacgggtg ccagtcgggc 240
 ccgtgccgct cgggcggcgg cggcagcagt ggcggcggtg gtgcgaacgt ggctagcgtc 300
 gtcaccggct ctttcttcaa cggcatcaag agccaggccg ggagcgggtg cgaaggcaag 360
 aacctttaca cccggagcgc gttcctgagc gc 392

<210> 35387
 <211> 290

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G11

<400> 35387

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 ttttaagatct gttccacaga tcacgcgtgc gcgctcgcga atcggaggtt ccacacatag 180
 cttcgtcgtt ttgaatttga tgtactaatg gagtctaagg gtggcaagaa gtctagcagt 240
 agtcgttcca tgatgtatga agctcccctt ggctacagca ttgaagacgt 290

<210> 35388
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E6

<400> 35388

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 aatgacccat cgcaaagata tgcttgacga aactctattg agacctggac gataggaaga 120
 tcacatcgag ataaacctgc ctgatgaaaa aggtcgcgtc caaaaacttc agatacatag 180
 acataagatg aaagagaata ctttcctatc tccagatatt aaacttcttg agctagccgc 240
 aaggacaaag aactacagag gagcacagat gg 272

<210> 35389
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G12

<400> 35389

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 tcatcgggct cttcaccggg cgcaacgtcg gcaagcaact ggtcgccatt gcgcgggaat 180
 gaatgctggg catccatata tacgttgaga ataatgtcgt ataaactata aagcatgcgt 240

acgttttcag acgtgtagg aattgatggg ttgcagtgcg tgcagtttta tgctgttcga 300
gtgaaatggt tcaa 314

<210> 35390
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C9

<400> 35390

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gaaactgcct cccaaattct caaatggggc ctgctgttcc acggcgaggg cgctcgaccg 120
gagcgagctg gcgggtaaaa gcgggggctt ggcttgagga gcggcgggga gaaaggggag 180
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ggacaagggc actagccggg tcgtggggaa cctcgcttc gccgtcgctg tgacgtacct 300
cgacgtgacc ggccagctcc ggtgggttat tgacgccatc gtctctctct ggc 353

<210> 35391
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D1

<400> 35391

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tacgcacgca cacgggagac atggacgctc agccaaagca tccacacaca gctctcttcc 120
tactacactt catactagct agtctctgag ccctctagac tctagccact tacacacgag 180
ccaacgcaa taatttccat aacatacaaa gcaacagcaa ttgcgaagac ttgcagcaga 240
gatgcaagat gcatggacta ctgttctcca aacgacacgc agcagccact taagatgcat 300
gctccgccct accctcagaa tgacctgagc attcgattct acacgttcta acacgaccta 360
gaccaattca tca 373

<210> 35392
<211> 343

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-D10

 <400> 35392

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 gccgcgtgct tcgcaagggg tgcagcgacg cgtgcgtgct gcggccgtgc ctgcagtgga 180
 tcgacggcgc cgaggcgcaa ggccacgcca ccgtcttcgt cgccaagtgc ttcgcccgcg 240
 ccggcctcat gtccttcctc accggcgctc ccgagccgca gcgccagcg gtgttccagt 300
 cgttgatgta cgaggcgccc gggcgggacga tcaaccctgt gag 343

<210> 35393
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-D11

 <400> 35393

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 gggcggcgat gtctctcgcc ccggacccgg cggacggcgg cgccggcacc ggcaccggca 120
 ccggcgacga ctggttcctc gactgcggca tcctcgacga cctcccggcc gcggcctgcg 180
 gggccttccc gtgggacgcg tccccgtctt cttccaaccc cagtgtggaa gtgggcagct 240
 atgtgaatac caatgatgtt ttcaaggagc ccaatgatgt cttcaaggag cctggcagca 300
 ataagcgttt gaggtcagga ttcaatgatg tgcattgtgcc aacatctaaa gcttctaggg 360
 gaaaaatgat gaggaacaag ctgaatgaca ggtttct 397

<210> 35394
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-004-Q1-K1-D12

 <400> 35394

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 ggtaggtact ttggggcagc tcgctcaaat actggtgggc ctattggtgg ccaccttgct 120
 catcaacaga actcccagca agctatgggg agcattgggt caaatTTTaa ctacactgga 180
 atggagaatc caagtagtca gccttctggt ggagcacana tgtcccaaac tggattaatg 240
 acccatgtgc ctgtccaagg actaagtcac attccgtgat ggTTTTtcta ttggtgggat 300
 gtcacaggac ttctttgtag acgattTTaa gag 333

<210> 35395

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-D2

<400> 35395

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 gtcaatggcg ctttcaataa caggcattga tgataggagg tattggaact tcattcccag 120
 tgatgaatca agattccgca cggttgcgta cctctcgcaa atctggtggt ttgaagtga 180
 aggggaggtt gaattcttct tcccagaagg cacgtacagc ctattctacc gcattcatct 240
 cggccgacca ttcaagcgtc ttggccggcg agtctacagc tcggagcacg tccacggctg 300
 ggacatgaag ccggtgcggt tccagatgtc gacctccgac ggacagcatg ttcagtccaa 360
 gtgctacttg agcgatcccg gtatctggat caaccacat gtcggggact tcgtcgtgaa 420
 ggactcgagc aggccagtga acatcangtt cgcgatgatt c 461

<210> 35396

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D3

<400> 35396

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 cccgatcgtg cgagtgaata tccaatgcc a tgaggtagca tgtttgtgat agctttccat 120
 caaccaccgt atattcactc gcatgatcgc tcttgTtaaa gtcgta 166

<210> 35397
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-D4

 <400> 35397

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 gctactggga cggatcagaa cagcacttgc aatggctact agcacactca agagagctca 120
 tcgctctgga gcgtagcaag ctgtagctgc tgcaccaaat ggcgccgcca taagatactc 180
 ctagatgcta ctgcctccag agctcgacga catcgatacg tccggcactc gccatgcgga 240
 tataacaacac cgggcagtga tcttacacac gcatggcatc cagctctctt gacgactcac 300
 tata 304

<210> 35398
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-D6

 <400> 35398

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 ggaggcacag gtgaactggg cacggtggtg ttcctgcacg gcttcccgga gatatggtac 120
 tcgtggcgcc accagatgcg ggccgtggcc gcggcggggt accgcgccat cgcgccggac 180
 tgccgcgggt acggcctgtc ggagcagccg ccggagcacg aggaggtctc tcctgacgac 240
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 ggcaaggact tcggcgccat gccggcgtag gagttcgcg tgcagcaccg gggccgcacc 360
 ctccggcgtg tgtgcctggg catccccctt aaccggccc ccatgtcctt cgacgccatc 420
 atgcccgaag gattctacat cctgcgctg 449

<210> 35399
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D7

<400> 35399

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ctccgcgccg gcgatggccg gcgtgcagcg ggaggtgtac tcgaagaagg gcgtgatgcg 180
gcggctgatg cgggtggagcc ggccgcgggtg ggccgcggcg gagcaggcgg agtgcgcggg 240
gtgcctggac gagttccgcg cgggcgacgt gctggcgcac ctgcgctgcg gccaccgctt 300
ccactgggcc tgcgcgctgc cctggctcga gggcacctca cggtgcccct tctgccgcgc 360
cgtcgtggac gccggcgccg ccgtcgacgg cgcctagaag cggccgaggc tctggtcttg 420
ctggggctgg cccgtgggac ggcgcggggc gccttgctgc 460

<210> 35400

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D8

<400> 35400

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gaaacgactg tcccaagttc gatctcatcc ttctcaccat gggctccgat gggcatgtgg 180
cctcgctttt cccgaaccac cctgccatgg agctgaaaga cgactgggtc acctacatca 240
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catccaacat agcaatagtg tccactggtg atgacaaagc aaaggctgtt cacatagcag 360
tttctgacat ggccgaaggt cttgatgctc ctacatcact gcctgctaga atgggtccagc 420
caacggacgg gaagctggta tggttttctgg acaaggcg 458

<210> 35401

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-D9

<400> 35401

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agcgggaggg actccctggg aggaatggcc gtggtgaggg ctccgctcgg cgcggtggct 180

gtggccgctc tcgtcgctgc catcttcatg ccggccgtcg catcggcgca ggcaccggcg 240

cccgcgccca ccagcgacgg tacgctgcct ctctctcttt ctctctcta ccccttcctt 300

ttt 303

<210> 35402

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E1

<400> 35402

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agaggtgggc aggtggcct ggaacgaatc tgttgctggc gttcatcggt catgtggcgc 120

aggtgccggc tgagctgctg gcggtgaca gtcagacgcc ttttcccaa actaaggcac 180

cagatctggg gcgtcacttc ct 202

<210> 35403

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E10

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<210> 35404

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E11

<400> 35404

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atttttctcg tctgttacc atgaaatgaa aataaaaggg ttgttagcag atggattgca 180
tgcagatcat ctgtcagctg tacagcctta cagtaggcct gttactgttg gaactcaaag 240
ttatgaatta gt 252

<210> 35405

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E2

<400> 35405

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tggcaagaaa aagaccgtcg accctttctc taagaaggat tggtatgaca tcaaggcacc 180
gtcgggtgttc agtgtgcgca acatcgggaa gactctcgta tccaggacac aggggtaccag 240
gattgcttct gagggctctga agcacagagt ctttgatgtt tgcctagctg atctttaagg 300
tgacgaagat ca 312

<210> 35406

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-C8

<400> 35406

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ggaacatatg ttgagaaact tatgacaagt gagctatctg gaaatgtcat tgatatctgc 180
cctgttggtg ctcttacatc caagccattt gcatttaaag ctcggaactg ggaactt 237

<210> 35407
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-E3

 <400> 35407

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gatgagttga tcaacgctgc caagggtctt tccaacagct acgccatcaa gaagaaggac  180
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ttgagaccta tatctaaggt tttggttctc agtgaacaat gaaaattact gtgaaatgca  360
gttgtttttg tgcagaaatg cgcactgaga aaaa                                394
  
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<210> 35408
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-E4

 <400> 35408

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gggctcaaga gtcttgacgc gtctagcctt cgcagaaaag ggttcaagcg agaagagggg  180
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gatcggccac cgggtggagg acctctggga ggtggcggag ccgcagctct cgccgtcgga  300
gaagctcaac tctgcttcg aggacatccc cgtcgcgtcc ttcccgcgca cgcaccgcgc  360
ccaagtcatt gagattcctt cagatgcaag tcttgctgaa actgtagaaa tattatccaa  420
aaacaaaatc ttgagtgcac ccat                                444
  
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<210> 35409
 <211> 306
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-E5

<400> 35409

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gggaagcgca acaaagcaac gcaaagccca cgccgctaca gtgctctctt gcctgcccgt 120

acgagccaac gactcgaacg catacactcc aatggcagcg acggtgatgg cctccatgag 180

ccccctcgcc ttccggcacc cccggcgcgg tcgcgctttc cctgtacggc tgctccaggc 240

ttctacactc gcgccgcgcc ggccgcgcctt ggccgtgagg gccagagcg acgacgccga 300

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<210> 35410

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B1

<400> 35410

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acactccctt ctatcgagcc atagactcac attctgggat aagattgtca gatcgacgag 120

atgcatacct aac 133

<210> 35411

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-B11

<400> 35411

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gtaccaagtg ctcagggagt tcagtctgac aatgatccta acaatacaac catttttgtt 180

ggtggtcttg accccaatgt cactgaagat atgttgaaac aagttttcac cccttatggg 240

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agatc

305

<210> 35412

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B2

<400> 35412

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cggagctgta ccacaagatc ctcaacatcc ccaaggacac ctcgccgcaa gaacttcgag 180
ccgcgtacaa aggcctcgtc acgaaatggc acccctacaa gcacccgcca tcgtacaggc 240
cggaagccga agcgcgcttt aaggccatca gcgatgccta ccacgcgctc ctagaccagc 300
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<210> 35413

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B4

<400> 35413

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agcaggccgt gagcctggcg cggcgccgcg ggaacgcgca ggtgacgccg ctgcacgtgg 180
ccagcgccat gctgcagcag caggcgccga cggggctgct gcgcgcgcg tgcctgcagt 240
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gcctgccggc ctcggcctcg ccgctcctcg gcggtcacgg ccacgtctac taccgcgct 360
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<210> 35414
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-B6

 <400> 35414

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 gcaacaccta tatgagatca tcatccagct tgaattgatc accagcagct ccagattcctt 180
 cttcatcatc aattgctttt tctgcagcat cttggtcatt ttgagttggc tcttgatgat 240
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 taactttttg gcgcttcccta ctccctaacat aggtctcgga gtaggtcctc ccaccacgtg 360
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 ctactgcact ccaaagc 437

<210> 35415
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-B7

 <400> 35415

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 tcagcaaaag aagagcactg tggcttcaaa tggatctgat attctaatac aatcttcctt 180
 cgtacaaggg aaatcttcag tggttgcacg tgcaatggat gagcctccaa aacctgtgtc 240
 tgatgagggg gttaaagttt ctacaaaatc tacttcagaa tttgagacaa gggcaacaca 300
 aaagcgtgct ggcaatgctg ggaaggtaat gaagcatgat gttgcaaagg aagatgcaaa 360
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 gtctcatgca gctgatgct 439

<210> 35416
 <211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-B8

 <400> 35416

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 gaacttcgtg gtgctggtcg tcaggctcct cctcgtcgag ctcttcctcc gctacgacac 180
 attcaccggc gaggtcggca aggagctgct cggcaccagc gtcattctca ccggtgtcac 240
 gaaagetacc tccggtcggg gcagcgagta aaccgtccgg ccggcgcgcg tcgttggata 300
 tatgatgagt ggacgtgaca gagtgtccca ttatttctta atttcgtcat ttactcctt 360
 ccttctaata agacttctct gtcaccctcg ggcccacctt tacttgtgat tggaggtgtt 420
 tgtcgctt 428

<210> 35417
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-C10

 <400> 35417

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 cgccaccacc gccgctgcca ctgcccata ttgggcgggc cgggaacctc accatcttca 180
 tcacgccgcc atcccccgct agcacgcccc ggggcgctgg gcgcacgccg ccgctcgagt 240
 ccccgcgctc ggatatctcc acaccatcc cgcagagggc agccccgtcg cctccctttt 300
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 cccc 365

<210> 35418
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3069-004-Q1-K1-C11

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gcggaggcgc ccgagaccgc cgtccccacc cagccgcctc ccgcgcgggc ggcttcgtcc 180
ccgcctccca agtcggggat cccgccgcgg tacgacctgg acgccaagtg ggacgcgtgc 240
ctcgacctct ccatccgcgc cgtcgcctac tctcctctcg gcgggcctt cgcgggcctn 300
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<210> 35419

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C12

<400> 35419

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atcgaccgga tgcggctgca agacaagcat agcagctggc caagaaacgc aaggtggatg 120
catgaacccc tgagaatata cacaggagca ggaaacc 157

<210> 35420

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C2

<400> 35420

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gctcgtctgtg attcctgcga gtacccaagc ccaaccaagc cctagcccgg cagccattct 120
cttcgcgcca catcgcacga cctccccgaa gcagacgtgc ccgctgcccg tccgtccccc 180
gtggccatgg ccgcgacgtg gtcttcgtct tgctgcgccg cgaccgcgtc gagcagcgtc 240
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tacaggcagc ggcggcggcg gcgggagctg tacatccgcg ccacggtcgc ggcgcgcgtc 360

tcggccgtgg tctacgcgga cgccggcgcc gacaacgtgg cctcgctgaa gatcaagctc 420
ctgagcgcggtg tggttcgggct gaaccgt 447

<210> 35421
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C3

<400> 35421

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gcgtagtggg catcgctcga ggcgtggcgg cggagttcgt gaagctcacc ttccgtgccc 120
tgtatatgcg cctggctggt ccaggcagca gggagatgac tgtgccggga aggccatccg 180
accagctggg caggaaagtc gtcactgaca ggcccgtgta cgacggccgt ggcgcctact 240
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tcaccatggt ggtcgaaacc gactggcttt agggttccac gctc 344

<210> 35422
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C4

<400> 35422

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ggcgccggag acttcggagt ggcacactgc cttcacgact tgctgtgctc gtgcgctact 120
cttctcgagc gccgcgcgga gcacggggac attaa 155

<210> 35423
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C5

<400> 35423

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ctgccgtggt ggtgaagaag atcactttgc gcgtg 155

<210> 35424
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C6

<400> 35424

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ccaagttggc catggccttc aacaagatca aggtcgccaa ccccatcgctc cagatggacc 180
gcgatgagat gaccaaggtg ttctggaaat ctatcaagga caagcttata ttccctttcg 240
tagacctcga catcaaatat tgtgacctcg ggctttcaca ccgtgatgct accgacgaca 300
aagtcacagt ggaagctgct gaagccacac tcaagtacaa tgtggctatc aagtgtgcca 360
ccattacacc agatgaagca agggtaaagg agtttggctt gaaggctatg tggaagagcc 420
caaatggcac aattaggaat attctgaatg gcact 455

<210> 35425
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-C7

<400> 35425

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tcgtttcgat cgtggtttgg tgacttggtg agaggggagg ggagaagcgg cgatgtcggg 180
cgtgttcggc aggggtgttcg ggaagtccaa ggagcagagc caggccaccg cgctggcctc 240
gtcgcacaag ctcaacgaga cacttgaaat gttgggaaag aaggaaaact tgctagttaa 300
aaaggccaat cttg 314

<210> 35426

<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A9

<400> 35426

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ataacattct cctagcccac gctgaggctg ttgatcttta caacaagcat tacaagcgcg 180
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tcttcaagga cgagcagaag gagaagctcg ccggttctta taacatgttg gggttaaact 420
actacacctc acggttctcc aaaaacatcg atatctcacc aaactactc 469

<210> 35427
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G9

<400> 35427

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ttcgccgccc gtgaccatgg cccaagccg tcggaggtgt acggcttcgt tggatccatc 180
accacgtca ttgccaccgc cgtgtacctc gcctgggcat acacgccga gcccgctctc 240
cagtcactcg gcatcaccta ctaccctagc aagtactggg cactggcggt gccatcgttc 300
gtggttgtga ccgtgggtgct gtccatgggc atctacatgg gcctcaactt cgctgccact 360
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<210> 35428
<211> 220
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-003-Q1-K1-H1

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gggttttgtc tttgtttctg tctgccgaat ggagcgagtg gtgatggtga agtgtgtcag 180

aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 35429

<211> 438

<212> DNA

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ccaaatcatg ataaacggtt ctctctgtcg cctcatgaat catggagctg gtggcaagag 180

ttcacctacg gtcacagca ggcatecttt ctccaaccaa ggtagcccta gaatcccgag 240

cgggtggcagc ctgaggaggg cttgtttgatg atcctgttcc gcctgatcca ttggcttgtg 300

gcttaaccag atgctccctg aatccccgat atatgatgga tggacgaagt gccccggcaa 360

tagcactgta cctgtacata cccattgccg ttcagcgtg tgctgttgtg gaatcccaac 420

ggtctcactt tgttttgt 438

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<212> DNA

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<223> Clone ID: LIB3069-003-Q1-K1-H11

<400> 35430

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aatggcatcc gcaatcatgc tcgcattgag acagtttaat tcggccatgt cacatttttc 180
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<210> 35431
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H12

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 tacttcaagt tccatcgcg agcaccctgc atcgatatcg tctgagatcg atctcgattc 240
 aaaaatcaca ttaaagaacc tcggccggga tgaattgaac aagaagctct tttctttttc 300
 gtaataagat atatacatat gaatcaaata atagcttcaa ctctttgggt taattttggt 360
 gctttttcta ttctattttg tttggatggg 390

<210> 35432
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H2

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 agggataacg gacttacaaa gcaacgaccg catgacctgt agaatgacac cacccatcta 120
 aaagatacag gctaacaaac gcatgcatgc aaagcaatac atgtcatata agaaagccta 180
 aattgacaca actgatcgtc tagtaacaac gaagcctcat gtaaaa 226

<210> 35433
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<223> Clone ID: LIB3069-003-Q1-K1-H4

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gagctcgtgg ccacactgcc cggctacgac tgccgctacg ccgtcttcga cttegacttc 180

ttaactgttg acaac 195

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gtatagcaac acatcaaacc cattgctaga ttgattcact gtggagaaaa tgcggtacgt 180

accagtttcg gacttggatg aagagtacag gtctagttgc cattgtagag atggatagga 240

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tgtggttcat gtcatttgca tatatatata gtatatgata tgccttttcg gtgggtctgtg 360

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<210> 35435

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-003-Q1-K1-H6

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gagccgccgc cgccgccgcc gccccgggcc ctggcgcgag ggccgcggtg gtcgcctccg 180

tcgcgcctt cctcgagtcc gctgggctct cgcgcacgct cgtcgccctc caatccgagg 240
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gattcttaga gtcgagcaat tcaactcggg cggctgccat tctgggaagc gatgagcaag 360
aacaggaaaa tgatgatata gcangagaag ttggcaagga aaaaaagaag agcggcacat 420
aaaccggtga g 431

<210> 35436
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-H8

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gcgctctaggt cgccgttctc tgcattgctgc tggctcttcgc catcttcccc ctctctctct 180
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agtaggatca cgtgctgcac ggtcgcgcgt cggcgcgacc gatgcttaag atgcctgaag 300
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<210> 35437
<211> 58
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-004-Q1-K1-A1

<400> 35437

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<210> 35438
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A11

<400> 35438

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gcagtgtcca acttgctcct cgccacgctt ctctcgtgcg gcgcacgagc catacggacg 120
cactgcggct atgtctccgc ggtcggtgac cccggcatgc tgcgcgacag cctccgtgtg 180
gcatgggagg cgtggaactg ctgcaacgaa gacggtcagg aagcccccg catgggcagc 240
ccacgcagtg ccaattgcta cgatcttctc ggaccgacca ttccatctct aactatcttc 300
tatcaccgta gagagtgaat gggttgccac caagattagg tctctgagga agcgtg 356

<210> 35439
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A2

<400> 35439

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aattacatag accatagaca cactacta 148

<210> 35440
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A4

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gaagaagacc gattaagtga cgaacctct gtctcgagaaa aagccgaaac agttcggcat 180
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gcgcattcag cgccagcgtc tcattctcaa gcagcgcctt aaggtgcctc cggcgtctaa 300
ccagttcacc cgcacctct acaagaacct tgctaccaac ctgttcaaga tgcttcttaa 360
gtaccggccc gaaaacaagg ctgtcaagaa ggagaagctt cttaaaaggg cccaggctta 420
gaatgaagga aaaactgttg aatt 444

<210> 35441
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A5

<400> 35441

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tctcgaccca tccccacct acaccactc tgcccctggc tgcgcgcgtt ccagttggtg 180
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tcgtctgcga c 371
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<210> 35442
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A6

<400> 35442

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gtttctcgcc atccccacca cccatttcc accgccagat tcggtgccgt taggatcgat 120
ttcttggtga tcttgagca tctacaaggg gtgggcgact cagcaaaatc tgctggcatc 180
tctctctttt tcttgcatcg aattttgtaa ttgccgactg aaccgtgcag agaagtcttg 240
acaagcgcac gggcggaggt ggagatgggg aatcgtgcga tctcctcaa gtcctttttg 300
agggggcctt ggctggaaga gctgctggtg ttgttggtga aacagcttta tctctatttg 360
atacgataaa gaccaggctt caggctgcac aaggcggaag taaaattcaa tggacagcgc 420
ttctgcaatt ttggtggag tatatgaacc agctaaaag 459
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<210> 35443
 <211> 444

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G7

<400> 35443

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gcgccacgc gtccgccac tcgtctttcc actcttccgg gctgactcaa ggctaaggga    60
gcaggtagaa attggtaatg atgacgggct ttacgttagt tgtgtggctt cctcggcaaa   120
cctttgggca ctcatcatgg acgctggaac tggtttctgt tctcaagttt acgagctctc   180
accagttttt ctccacaagg actggataat ggagcagtgg cagaaaagtt actacataac   240
agcaattgct ggatcaacca atgggagttc attggttgtc atgtccaaag gaactcctta   300
cactcagcaa tcatacaagg ttagcgaatc ggtcccttac aagtggatca atataaagtg   360
gaaagaaggg ttccatgtaa catctatggc cactgctgga aaccgcttgt gcgtagttat   420
gtcaaggaac tcatggtttt ctac                                     444
  
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<210> 35444
 <211> 152
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-A7

<400> 35444

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cccatgttgg gtactatcta tgtactatct ctatatccaa aactatagtt gtgctggctg    60
aattgaactc aaaaggggtt gtttgagaaa aaattgtccc aagattggat tgcttgtaa   120
agctcaatat tgttattgaa gtgttattgc tt                                     152
  
```

<210> 35445
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E9

<400> 35445

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gtaaatttcc ctaagtaaag actgattaat atctaattag tggccacat ttcaagaaaa    60
ttaataaaaa aaaaaaaacc ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacia  120
aaaaaaaaaa aaaaaaacia acaaaaacca aaacacaaa accaaaacia caaacaaaaa  180
  
```

caataacaac aaaaaaatac aaacacaaaa aaaaaaacca aa

222

<210> 35446
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F10

<400> 35446

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ttcgggcaca cttgttcttc cgggaggagg atttgaaaag tttcaagcag atggtagaca 120
cctacttatac tgatgcctct aggcaatggg cagccacaaa tgaaggcagt tctcttctgg 180
acagtatgac taaagcaatt gatgagggtta tcaaaattaa agagtgtgac atctacagct 240
ataatccaga ctctgacgca tatccagttc ttgagaaaagg ggccatatgg tcgttcaact 300
actacttcta caataggaag ctaaagcgag ttgtgagctt tcgatgttac tgcactagca 360
aattatcagg agatgaacttc ttaaccggtg ttgcgtctga tgggtgaagag gaagatgcct 420
tgattgacat ggacatatga ctgaccgtgt tctgctagct acctgatgtg cgtataatat 480
aaaaca 486

<210> 35447
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F11

<400> 35447

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ggggtgtgtc acttactgct ccgacttttc ttaccgcatg gtcgtcgaat cccggtacca 120
gagggctgcc gagggcagat cccgcctcgc gcgcctcacc ctcgtgcagg cgctgcacct 180
agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggaggcgg tgaacaagtt 240
cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat tagggcgaat 300
gaggaccatg gcagtgtgtc ttcggcttta cacaagcttg tcatcaattg cggttgcatt 360
ctctgtgacg tgcattatcc ggtcagagtt gttcttgaag gttatgaagc aaaacacaga 420

ggccatcaca agctacgaaa tgcttgatgc ggctcgtggt gc 462

<210> 35448
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F12

<400> 35448

gaccacgcgc ttcgcccgcg cgttcgcgac tagtgagcgc gatttattct gcgctgcgcg 60
ggatcagggc caatgttagt gttcacccgg agaaggtgat cagcggctctg ctgctgggct 120
cggcgggtggc gctgggggtgg aagtcgtcgg agcagcagcg cgagatccag agcctgttgg 180
ccgagaagag ctctctccga gccaccaacg cctctatgtc cgccgccatg tgggcctggc 240
gggaggagct cttcgccttc gccgcgcgc cctcctcccc catttccgcg tcccggctcc 300
gccacatcta cggcgaggag gagcccgcgc cgctcgcgcc cgcgcccgcg ccgccaggag 360
caaatgatgg gaaggaagag gaaccgatct ccatagcctg aactctttcc gcactttttt 420
ccagtcgagc gtgtgccgtt cgtgtacatc atggccc 457

<210> 35449
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F3

<400> 35449

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agctcgcgta gcctctttcc cacaccttcg cctgtgccta tactcctgca caaataaccc 120
cttcgagtgc ggttgctgct gttcatctg cggatattct tccacacact gactcggtat 180
ccattctacg gacagaccga ccaatcgacc catccgtcca ccgagagcca tgaggcacia 240
gcagatccac agcaagcaga aactagcag ccaccggcga cgatcgcaact cctttcatca 300
tcagccttc 309

<210> 35450
<211> 347

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-F4

 <400> 35450

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 gtctctgtta caataatgcc cgctcgctcc tactcctccc agccgcagct gatacacccg 120
 gccgcggtcc tggcagcgac gctgctgctg ctgtcggcgt agcccgacac agcctctacc 180
 catgtgacct acagccaggt gacatcatcc atagcgccat gcctagcgaa cacgatgagc 240
 aacacgacat cgacctccga agcgagctgc aacgggtctgc gctcgctcaa caaccgcgcg 300
 tcgtctgctg cgcaccgaca cgccacctgc aactgcctca atagcat 347

<210> 35451
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-F5

 <400> 35451

 aaaaaaaaaa aaaaaaaaaa aatttaaatt ttaaataaaa aaaaaataaa aaa 53

<210> 35452
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-F6

 <400> 35452

 aaggaatctt tcagctcaca ccttcctatc cctccttccc ttctctctct actgcgacta 60
 gtgcgcttgt cccctcgctc gctcgctcgt cgtcttcaac ctcacacaat tatttgtgct 120
 cccgctcctt ccgtccgtcc ttctccccc cttccctctt cctcttcca accgccgctc 180
 ctgctgcctt gcctctcagc ccagggacgc caaggctctt gccaggatgg tgtatgccgt 240
 gcctctcgcg cattatgagg tgtggtggtg agggatgggc gatggccttt gcagatgaag 300
 gagcgacagc gctggctgcc tgaggaag 328

<210> 35453
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F8

<400> 35453

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accactcga gcgatcgact atctcaacat ccaattttca tattctcagc ttccatctaa   60
tacaacatgc aaaagtccaa ttatactttc ccaaccactt acccaaccct aacatgacac  120
aatcctcttc ctcttcgcag actccgtaca gcatcccatc aactttctatc cctacatata  180
acaacattca tctatcacac atagactctc acacccttaa ccaaacctgc aatgactacc  240
agaacaccac tcatctattg tcgtctcagt acgaattctt ctgagaaacc atctttacca  300
ttatccaacc acc                                                         313

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<210> 35454
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F9

<400> 35454

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tgcgcgggcat tcttcggcgc cgccgtcctg agccgtcgca cgcgccaccg gggcgccctcc  120
ggcgcgcgct ccctacgccg gctccgcccc gccgccatgg gctccagagt ccttcactta  180
gacgttcctg cacattctga ggcctatctt atgagaaatg taccagggag tgtaagtagc  240
cctcgcacga atggtgaaaa gggctctctt cgaaatcaga atgcgggggt cactgcactt  300
gcaagtccctg tgaggagaga aatcggaac agatcgtcta caaggtcctt ctgtgttgaa  360
gacaatgact tggaagatgg taagacctca aaagaaaggg agggttctgc acagtcactc  420
aggctcccaa agattcagaa tcaggctctc ttatctggtc tggc                             464

```

<210> 35455
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G1

<400> 35455

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gatcgccctg ccaccagaga ccaaccaact gctatgattc atcatcaaga ccttatactc 180

caacaccgag atctgcctaa gtgagcccac tagcaactcc aggactgcct tgcattcgat 240

cacgaccgcg agtatgacga gcac 264

<210> 35456

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G10

<400> 35456

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actccttcgt gtagggatcg ttcttctcat cgccaccaat ggccactgcc gaggtccaga 120

ccccgaccgt cgtggcggcc gatgaagcgc ccgtggtgga gaccctcgcg ccggccgctcg 180

tgcccagagga gtctgcccc gtcgaggccg aggccgaggc cgaggctgct gcttctgctg 240

atcccagagga gcttcccgcg gccgagcagc aggcacccgc cgatgcggag gccgctgctc 300

ctgctggagc cgatgatccc gtctcggtcg atccggccgt cgaggcggag gctgctgctc 360

ctgctggtcc cgaggagact cctgcggtcg agcaggatgc agccgccgag gaggatgctg 420

ctgctgctcc tctgctggt 440

<210> 35457

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G11

<400> 35457

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ttttgtcagg ggagggtgcg tttaatacaa gtgctcttaa gcgcctcaca gaggaagctg 120

aaagaagccc aaagaacgag aagattcaga tggaaatgaa gaagaagacc gatgaaatta 180

aggggaagca gcaacagata gcatcttttg agagagagat agctcatgca acattaggaa 240
 ctcaaggaaa ggctgatacg ttagagcatt caccgtotta tcatgaacta cttgagcagc 300
 tcaatgagaa atcttttagaa cttgaagtga aggctgcaga taatagagtg atacaagatc 360
 agctgaatga gaagataact gaatg 385

<210> 35458
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G12

<400> 35458

gacgcacgcg tccgcccgcg cgttcgggtt ctctgtcgc tcttcgtttc tgtcgtgcg 60
 cacactatcc atagaggggg cgttcttcgc acagaagaga gaaccagccg atcgatcgc 120
 ctgctcttcc ggagggatga aggatgatgg agaaggctct taccaagctc ggcagcttca 180
 caatcttccg caaggccaag caggagctct ccgccatcgc tgacgacatc tcccgttttt 240
 cgagcacggt ggaggagaag gcaaaatggg tgttcgagaa actcataggg cacaagaagt 300
 cgctccctga tctactgcgc gagcacaacc tccctccagg tctcttccct cgtaacatca 360
 tctgctacga gtacgacgaa tcgacctga aactggtggt gcacctgtcc aagccctgct 420
 aggtgagctt 430

<210> 35459
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-003-Q1-K1-G4

<400> 35459

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 gagnacgtta ttgtacccaa ggcggagaag aagcctgttt ttaagatacc ctctgaggac 120
 gagcccgtgg ccccggcgga taaagcccc gctgtgaata agcctaattgc ggataaactg 180
 ctccccggcg gaaaatccga cggcaaggaa tgccgtgttg acaagaacgt gcggaagaat 240

gccagaaga gcgtggagac gtacaagatc tacatcttca aggtgctgaa gcatgtgcac 300
ccagacatcg gcatctcttc caaagccatg tccatcatga actcct 346

<210> 35460
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G5

<400> 35460

cccacgcgtc cgcgcggtaa atttttcttt taatctctca tgtgttgtct gatagggtca 60
cgaatctttc caaagtccca cataatatct tactctaggg tgcctttaac aatgtcacta 120
acatgtacct tcaggatcca catgtcaatg tcactacttt gctagaaatc atgattctga 180
tcatgaagct catcttgtaa tacaactgaa agtgaagctc gacttataag acaactatac 240
aaagtaagac actccataat tcacaacaga tcaaacgatg tctgttgctt tgattgatga 300
cccttgctgt gctcattgat actcactcgc atacttaatc ctcttcccca tttgtgggtga 360
tagccacaac ccaagatata ttctaaactg cagttagaac tcatttgaca tataacgctt 420
acttcaacgg ttaatcac 438

<210> 35461
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E7

<400> 35461

ggcgacttgc atggtacgac tgtgtgggtt tctatttata caatcgtcgg accgtgggaa 60
gatataggag tgtttcagga ccaggatgcg ttgcagtgcaggacattgt tgtggaattt 120
ttgttgctga ttgccaaggg gtgggtcggc cgatgtagcg tctatgcatg gcttgtagtt 180
ctcctgtaat gttgttgtaa atttccgctt ggcggcttgt aatcttacgt gtatctggaa 240
cttgaatcct ggggtgattaa tccggcaagc agctgcctgt ttgt 284

<210> 35462
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-G6

<400> 35462

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cccaactcgtc cgaaaaaaaa atttaacttt ttaaactctaa ataaaaaaaa ctaagaggat   60
gagtaaaactt tccaaagtcc caaataatat cttacttttaa gaattccatc aacaatctca  120
ctaacaacta ccttcagaat ccacatctca atctcaacta cttgctagaa atcatgattc  180
tgatcaggaa actcatcttg aaatacaact gaaagtgtag ctcatcttat aagacaactt  240
cacaaaataa gacactccat aattcacaac atatcaaagc atgacttttg ctctatttga  300
tgaccctttc tgtgctcatt gcactctctc                                     330

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<210> 35463

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D12

<400> 35463

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tgccttctta gaaacgaacg gataactgac acttgcatat aatcatctag gaaacttggt  120
gctgacacta tatacatcag ggatcacgcc tgaaaccaac atcgtacctt catacatggc  180
acctgaattg actctcatat cgctcacatc taccaacaag tgataattat acacattccg  240
agcaatagca cttgatatgc tgtcatgcac aagcccagac atgccagtcc gaaaaactgt  300
cgtcttgctg tgatatcttg tcatctatcc actcctagat tatatgccga atgatattca  360
tcatccattc atgacaggtg ctactgcta cgccgatctg ataaccgaaa caagaactct  420
gcctattcct                                     430

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<210> 35464

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D2

<400> 35464

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agcccggtg caccttgatc ggaccaccaa ccttacagct caattccaac agtagcccca 120
cgttcctcat catattcaca taccaagcct accaagtgct cgacatctat tactagaaca 180
acttcttcca catggtcaga ctcaaacct tccactcagc atcggctgcc aaccgccaac 240
cgtcaacctc tcaactcttat atcccaatac attcgtatta agcacagcca a 291

<210> 35465
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D3

<400> 35465

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agaaaactgtc ctcatgacca agcagcaggc catagagcct gagacttcca cattggctgg 120
tttgctgac cATTgataaa cggacactat ccacagatca tgcaagatct cgtgaaagaa 180
acgctgtcca cgttcactcc tgagcacgct aaactgggtga agggctcggc agactacatc 240
ggtatcaacg agtacacatc cagctacatg aaggggcaga agctgggtcca gctggcgccc 300
agtagctact ctgccgattg gcatgttcaa tatgt 335

<210> 35466
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D4

<400> 35466

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atgaagattt gaaggaagct cgatctgggtt aaaagggtgaa gtgagagctc gccacgaaga 120
ttagtcgaga acgtatccgt cacgagattg acctcatgat gtcagacata caccctgtta 180
aagcaatgtg tgacatccgc gatttggggc tattttatgt tgcattgtct ttctctgaaa 240
aatgcaacct ttctgtattt gacaagcgtg attggcagag tctttcacat attgaagcag 300
cttgagatct tgcataattct attggcagct tgttgctcag cagtgggtct gacttcaagt 360

cgcacgatga gogaacaaag ctaggcttgt ctagtgcatt attcaacccc ctccgaagca 420
 tgttctacct ggacaaaata tctaagaaag cttctgattc tagctatatt atcaaa 476

<210> 35467
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D5

<400> 35467

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 tggccagatt gagtgatgaa aagattctgc aatgcgatat gaagctaatt cagattacac 120
 aacagcatga tcaccattta acgctgcta acaccatcac tcatgtggat aacaacatgc 180
 aacttgtgac ctccagagat gacacgtcta tacctgtgtg gaagccctgc atcccagtac 240
 tgatacacta tatcagttag cctcacatgc actcaacgcc atcaattgca ctacatacta 300
 actcaaagtg actggctgca cacagcttgg acaaatagat actgatatac a 351

<210> 35468
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D6

<400> 35468

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 atacctact agttcactcc attaatcctt ttataacaa ctacaacctt aatacactta 120
 aagatgatcc cgtcgtcctc aaagccctct actatatata tatcctgaac gaagaaacca 180
 ttgtgtactg ctacaatt 198

<210> 35469
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-003-Q1-K1-D7

<400> 35469

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 ngaggcgagc ttaggagagc agggccctcc tgaggggcct cccgcgcggc gaccccgagg 120
 cgttcctgct aggctgctgc tcgttcgggt cggcggcgcg gaagcggccc aaggcctcgc 180
 ccttgccctc cccaccgcgc ctgtccgccg ctgcagcggc agcggacgac ggggccaaga 240
 tgaagggcct tttcaagacc aagccgcgga cgcccgtcga catcgtgcgg cagacgcgtg 300
 agtgccctgt tcacctgac ctccactcgg gctcccgag cggcgacgcc aagcgcgacg 360
 agaagatgac tgagctaagc aaaaatatca gggatatgaa gtctatcctt tacggcaatg 420
 gtgaatcaga gcctgtaact gaagcatg 448

<210> 35470
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-003-Q1-K1-D8
 <400> 35470

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 catgccgacg ttctagctga gctacaataa caagtcgacg gaggtgttcc agtccgtgcc 120
 gtacgtggtg gccctcttca tcgtcatgct gtggatctac tacgcgctgc tcaagtccaa 180
 ccagctcctg ctcatcacca ttaactccgc cagctgcctc atcgacactc tatacatcgc 240
 catgtacctg ctctacacgc ccaagaaggc aaagatgttc acgggtcaaga tcctcctcct 300
 ccttaacgta gaccttttct ggctcatcct ccttctcagc ctgttgctct ccgtcagac 359

<210> 35471
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-003-Q1-K1-D9
 <400> 35471

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 ctctataacc tatcctccac aatataaacc tcattatatc acacaaacac ccatatcaat 120
 caatctctca catcctctat tttctactat tatatatcac attttccttt ccttaaaaat 180

ccaacccttc tctacatcac aaccatcaat cacactacca ctcacatatt taatcatcat 240
catatctctc atactctatt tacatcctct tactcaacac atcttctaac tccaattttt 300
accattaact accaattcta tacttttaca taaacataat tcaaccccct cccaaacata 360
ttcta 365

<210> 35472
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E1

<400> 35472

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cgttatgggtc aaccttactc gagacatcct tattaacaat aatttcaact acatcttcaa 120
tgcccacatg attcacacta acatgcttat gaacaagccc ttactacact tgatcatcac 180
aattctcata ttcatcaact tacatgcata cataagctat attgaca 227

<210> 35473
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E10

<400> 35473

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acagcttgag gacgggagca cgcttgctga ctacaacatt cagaaggaga gcaccctcca 180
ccttggtgctc cgctcacgg gaggcacgca catctttgtg aaaaccctga ccggcaagac 240
tatcaccctc taggtggagt cctctgacac cattgacaac gtcaaggcca agatccagga 300
caaggagggc atccctccag accagcagcg gctcatctct gctgggaagc agcttgagga 360
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cctcagggga ggcacgcaga tcttcgtgaa gaccctgacc 460

<210> 35474
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E11

<400> 35474

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 ctctctctct ccccttctct ccgtgcgctc cgccgcgcgc tgggccccct cgccgcggcg 180
 gcctcctcac cgcacgtcgc ccgtggccc cttctcgtct cgcgcggtgc cagaaccgcg 240
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 gagttcccca ccgaccccaa gccttcagag gaggaaatgg tcgcggaacta cgtcaagacc 420
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<210> 35475
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E2

<400> 35475

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 ccatctacaa tcagctattg ctgacgcact cacgtctatc ccagaaccaa tacctgatgc 180
 ccttgcaaaa ctttctcatg aaatacttga tgcaacacca ccaccattag ctgaactgat 240
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<210> 35476
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E3

<400> 35476

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ggctctaggc ccgatctcta aaataaaacc aaatccaaaa cctgaaccaa aaccagatcc 120

taaaccagat cataaacctg agccaaagcc agagcctaaa ccataccta aaccagagcc 180

aaagccagat ccacaaccaa taccagagcc taagccagag cctaaacccg aaccgaaacc 240

tgatccaaag ccagagcccc aacctaagcc atagcctaag cctgagccat aaccataacc 300

aaagccagta ccacaaccaa agcctgaacc taaaccagaa ccaaaacc 348

<210> 35477

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E5

<400> 35477

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ccttcgaccc caagctccct ttcaaagtgt tcagcgtgcc cgaggcggcg ccctttaccg 180

cggtgctcaa gtacgccgcg gaggagtcca aggtcccgcc ccagaccagc gccatcatca 240

ccaacgatgg aattggcatc aacccccagc aaagtgcatt caacgtgttt ctgaaacatg 300

gttcggaact gcgtctcatc cctcgcgata gggctggagc tgtagtcatg tcttccggtt 360

agaggatata tacagtccaa tgcataatga gcaaaacttg agagaaataa agctttgatg 420

ctggccttgc ttggc 435

<210> 35478

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D11

<400> 35478

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ccacatcact atggagcata atgtttgctc ggacagtaga actcaggaat agaggcaccg 180
 tttttggagt ggggtgggtat atgtgttgta tacagagatg agaggcgtgg agcattagtt 240
 tttgtgttgt cattgtcgct gtgcacccctt attgttttac cccttgtcca aaaagggatg 300
 cattattatg ttgagaggaa gggtatagag gtttcgcaat aaaatgcacc tagccaattg 360
 atagtatgaa tcagatatat aatctaattt atgactgcct attcgccttg taccc 415

<210> 35479
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E6

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 cgccagcacc gcgagatcac cgagcgcttg cgcgaccccc gtggccttcg ccgcggcgcc 180
 cccggccctg gtcttgacc tgggcccgcc cgcccgtcc gtggcttcgt gagaccccat 240
 gtgggtgcgg aagtggcgga tcaggctccg cagaagcgtc ggctgctatc agccgtagtt 300
 aaggttgatg gcgctgaaaa taatgaagaa ggcacaaagg atgccaatgg ggaggggcaa 360
 gaggcgggtt caggtgccac tgaaggcagt gacaggagga ctttcaacac tggcgggttc 420
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<210> 35480
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B7

<400> 35480
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 atcatgggct acgagaacga ggtatctatt ttacaggagc taaaccattg acagcaggtc 120
 aagcatcttc tactccaagg ccactattgc cctcaacgac cacttcatca aactcttctc 180
 gtgttacaac aactaatgag tctacagcaa cctcgtcgac tacctgatcc gtcacatgtt 240

caataccccac tatgctacta tagagataga tttctacctc actatcgagg gtcgtcacca 300
atgtcctttg aactctgacc atctttgctg cttgtctat 339

<210> 35481
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B9

<400> 35481

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atattcatag atcattgatc atattatcca aaacgttttg atactacaag acagattata 180
tgcacaagcc tattcacaag atatgactcc ctccagaacta ccctacccaa acaccaaccc 240
ctgaaatgaa ccaaggaata tttatttaaa aacataaaat ctctgactac aacaaatcac 300
agctcacaaa ccaacaatgc ttctgtgta ct 332

<210> 35482
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C1

<400> 35482

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cctgtgttac tgtcatgacc gtgtcaagta cctaggatca ttttgctcac agacgcactc 180
gaacttgacc tgaatgttcc ctggagacta cagatgggac accggcagtc tgtccacaaa 240
cccataggcg ttccgctcaga acaagacgac agaggtgatc caatgtcggg agtcgatgct 300
ttgttcactc ggctacata 319

<210> 35483
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C11

<400> 35483

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tggcgctgat gcccatcgcg aagcccctcg ctggaaagaa gctctgcaag cggaccctca 180
agctcgtgcg acgagcctct gaggccaagt gcctcaagcg ctgagtcaaa gaggtagtca 240
agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt tctcctattg 300
atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac atatatgttc 360
catcaaaaga ggatcttgcg accgcatgaa ccactaatag gccaaacttg tgcgtcctgg 420
ttctgaccaa accaaacaag gggg 444

<210> 35484

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C12

<400> 35484

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tagaaaggta caacaccaaa ttataccaat tgatcgacca atttaacatg cagacggccc 180
tatattcttg cctaattcta gacgacttca tctaattcac taccaaccag gactacatca 240
gtaacaacct cttgttatcc gtatactctt cttccgtcaa caccgatgtc aatatcaatg 300
acgtcatcaa gctcaagcta cacgacagaa gatccagact aatccgctac gttaagcttg 360
actttgcttg cgccgaaagc agcagcacca acaatgacga ccgctacaac aacaacaacc 420
tacacaacaa cgacaacaa 439

<210> 35485

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C3

<400> 35485

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ggtgatgtgc tcctattcca tagccatagc tcttagctct ccttactctt cgatcgttct 120

tacctcttgc catccattca gtcaccgacg ccgaggctga ctatggagga cgcgctcgcg 180

aacgccgagg ccccatgtt ctactgcctc gactcgctat tctcggacac cgacatcgac 240

ccacgccgag atgtgcgcat gctcatcgtc aactgtagcc tcttcaacac tacgccatct 300

ctcgcgtcca tggtagtgca c 321

<210> 35486

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C4

<400> 35486

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ggtcaagtgc tacctggcgt gcgtcctcgc cgcgcgtac gccgcctcg gcgaacccga 120

tgccgcgcgc ggggtcttca acgccgacgg ctgctgccgc tacgcgacgc cgcccaagcc 180

gctgctgtac aacgccatgc tccgtggcta cctctgcctg ggctctccgc gcgaggccgt 240

tgcgctcctg cgcgccatgc ttgcgtccgg ctctgcgcgc cccgaccgcc acacgtatca 300

cctggccgcc acggcctgcg cgcgcgcccc ggaccttggg ctaggccgcc gcttcgaggc 360

tggcgccgcg gcctgtgggc tcgcggtgtc cgaccttctg gtggccactg cactcatcgg 420

gatgcatgcc ga 432

<210> 35487

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C6

<400> 35487

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atctccaccg ccacagccgt cgtcttccgc cgcgcgcgat ggcccgctc ttcacgcaaa 120

cctcaccct agcccgcccc gccgcctccc cctccactac cgcgcgatcc gcttccctcc 180
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 cctcgtccca cggctcccc tctcgtccc catcggtcga ggcggtcggg atccggcgcc 300
 tggaggaagc catccacggc gtcatggtgc gccgcgcgc gcccgactgg ctccccctcg 360
 tgccgggagg gtccttctgg gtgccccac tgcgcgctca gcacggggtc gccgagctcg 420
 tgggccgat cgcggctgcc gtgggcaccg aaagggg 457

<210> 35488
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C7

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 ttgagagctg ttctccatct cctaggaggc gcaatattcc acctccatca cggaagcgtt 180
 acagaagaaa gagcagtcgc agtgtcatta gctctccagt tactgcatct caaagttccc 240
 accttgggtt ggaagagaat aagaatgcta ttgatacgca aaggctacaa gaagaaaata 300
 aaaggcattt ccgaagaaag atactgctgt aattccgctt gttatatctg atgatgcaac 360
 tggtgatcct ttatctactt ttgatcagtt ttgataattc gtttttggat c 411

<210> 35489
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C8

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 gtgtcgactc cgacggactc gcagccaccg gtggagacgc cccaccggcg cactcctcca 180
 acgttcatag tttaagggtc tgatttggat aattagtcac caacagaagt gataaaaaat 240

ggtggttctt gcagcatcaa tcgtttcaaa gtcgggaaaa gcacttgttt caagacagtt 300
 tgttgacatg tctcgcataa gaattgaagg attacttgct gcgttcccga aactgggttg 360
 aactgggaag cagcacactt atgtcgaaac tgaaaatgtg cgatatgttt atcaacctat 420
 tgaaagttaa tatcttctac ttatcacaaa caagcagagc aat 463

<210> 35490
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C9

<400> 35490

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 caggcgcccc tcacgaccgc acggtccgc ctgtgtctcg accgggtaca cggactcttc 180
 accttcacg 189

<210> 35491
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-D1

<400> 35491

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 gaggccgggc taacaatgtg cagaccaccg accttacagc tcaagtgcga cagtagccga 120
 acgtacctga tcagatccga ctaccaagcc taccaag 157

<210> 35492
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-003-Q1-K1-D10

<400> 35492

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ccccctcccc ctctctcccc tccccctcca tcgcgactcg tctcgtgcgt gactgcgtgc 180
tcgctctcct ttttgggtgcg ctcatcttgg tatctgtgcc agcgctcgct tctccccgtc 240
cccgccctcc ttccttttct tgtctagccg aaggccgaag ccactgtgcg cgcgagcgcg 300
acgcgagagg tagctgctgc tgtgcccggc gcgcgcgtgc gtgcgacgat gtcgtcggcg 360
gtggaggccg tctnctgccc caaggctgac gtcctcgccg gcccgagacc gttggagccg 420
gccaaaggaag cggcgccctgc cgcggagcac tgcgacac 458

<210> 35493
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-003-Q1-K1-B6
<400> 35493

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caaggccggg attgccttga acgaccactt catcaagctc gtctcgtggg acgacaacga 180
gtggggctac agcaaccgcg tcgtcgacct gatccgccac atgttcaaga ccagtaggc 240
tagtagagag atagatttct gcctccctat cgtgggtcgt cccaatggc ctttggtcgc 300
agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc ctggacgctg 360
gatccatgct 370

<210> 35494
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-H9
<400> 35494

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cttggcatgt tcttggactt ggatacaatc ctagcatcag catggaggag attagaaatg 180
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tcaggcacct ttggacaaag tatgtggact atgatgactc atatattcgt caatgcaatt 300
ttgcaccgnc atagaagggtt ttaattatcg acaacgaaga agaatcggta aacgtggcac 360
atacatatgc ccgaaggcac gatttctgta gagataagga gtttctagag tacaactg 418

<210> 35495
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A1

<400> 35495

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gacagcccca cccggctgc 319

<210> 35496
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A10

<400> 35496

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acggtggcac tggcgctgat ccggcggtgc aagtacctgg catcctccct gatgacgcct 180
cttctgcta gaagcg 196

<210> 35497
<211> 417

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-A11

 <400> 35497

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 gcgatgggtg aactggtaaa actacatttg tgaagaggca tctcactgga gagtttgaga 180
 agaaatatga accaaccatt ggtgtggaag ttcacccgtt ggatttcacc actaactgtg 240
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 atggatacta tatccatggc cagtgtgcga tcatcatggt tgatgtaacc tcaaagctta 360
 cttacaagaa tgttcctacg tggcatcacg acctgtgcat ggtctgtgaa aacatcc 417

<210> 35498
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-A12

 <400> 35498

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 cagcacagct ccaaccccat gtacctgctc gtgctcattt aacacaacaa caacgactgc 180
 tacctgggtc acgcctacat catgcataac aactccctcc actgcgaacc cattcacgag 240
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<210> 35499
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-A2

 <400> 35499

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ctgttccagg tgatcctgca gcgactgcc ttcatgtacg tggcgcgca cctgcaggag 180
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gcgagctca tccacgaggc gctcgtgaag cagggcccca tgttcgagag ccggcccgag 300
gacagccaca cccgcctgct cttcagcgtc tgcaagtga ccgtaactc ggtgccctac 360
gtcccctgt ggcgtgctct gcgcgcaac ttcgtcgccg agatcgtg 408

<210> 35500
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A4

<400> 35500
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<210> 35501
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A6

<400> 35501
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cactactatg ccttcacaaa tatccactac cttcataaaa cccactacat tt 172

<210> 35502
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A7

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gatgagtggc tggagggcac ttcgtttgtg cagagaagca aatccaagaa gaagcagacc 360
tgaagctagc tctccagact agttaatcct tggaggatct agaatgaggc atttgagggt 420
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<210> 35503
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-A8

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ttccacagga gttttacatc tgggtccctc tttcaccact tgattgtcta cggtagataa 180
atcgtttgag ttctgaactg ccttaggtac ggcaatgctt gctacgttga cgaaagacac 240
cgccacagat acgaggtgaa tcctgacatg gtcccagaat ttgacaaagc aaggctttct 300
ttcgttggca aggatgaaag tggcgaacgc atggaagtat atatatgatt gccaactatt 360
ttcgtgaaga attaaccttc ttctaactctg gtctcatgta tttggtctgg cac 413

<210> 35504
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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aagaagctga agctgataaa acagaagagg aaggtgagat caaacagacc aaagaagaaa 180
gagaggaaaa gagaatccgt gctcgaaggc gcatgctggg aaacattagg ttaatcggag 240

agttgttcaa aaagaaaatg ttgacagaaa ggattatgca tgagtgcatt aaaaaattgt 300
 ttggaaattg tgatgatccc gatgaggaga acattgaagc actatgcaaa ttgatgagta 360
 caattggtga gatgattgat cgtgcaaagg caaaggagca catggatgca tnatttggtg 420
 tgatgcataa gatgtcaaca agtc 444

<210> 35505
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B1

<400> 35505

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 gccatctcca ccgtgcecca ctccctccaa ctccatggtc cgactccttc taaatcctct 180
 acccacttct ctcaaccgtct ccctatccct tgccacctcc gcacgcaacg cctgcacctg 240
 gccgactcgt cctccgacct cacctgcttc ccctaaccga ctaccgtccc gaacggcgctc 300
 tacgtaccgt ggtccgctgc cttcttcgta gccgaa 336

<210> 35506
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B10

<400> 35506

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 cccctcccc ctctctcccc tacccttcca tcgcgactcg tctcgtgcgt gactgcgtgc 180
 tcgtctcct ttttggtgcg ctcatcttgt tatctgtgcc agcgtcgtct tctccccgtc 240
 cccgccctcc ttcttttct tgtctagccg aaggccgaag ccaactgtgcg cgcgagcgct 300
 acgcgagagg tatctgctgc tgtgcccggc gcgcgcgtgc gtgcgacgat gtcgtcggca 360
 gtggaggccg tctactgccc caaggtcgac gtccccgacg gcccgagcc tcttgagcct 420

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457

<210> 35507

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B12

<400> 35507

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gcgtccgata tcacaagcga ccttgcattg tctcaaccaa gctactaacc agtgcttccc 120

tcatgtaacg aacctacccc acgctcgcat atgaagaaca ctgcgctcac ctgcaacaac 180

caaccgtaca aactctgca actacaacgc tcattcatgt tcatcatact aatgatgtgc 240

atcaaacgac acgtacagta caggtactcc agcaacacca gctaccgaaa cgtgccccac 300

accgaagcac tcgtcaagcc ttcgacccca acctgcgagc actatgacat catcatattc 360

acaaactgcg acttactatg aagcaacagc aggagctccc gcatgagggt cctgtgcaac 420

<210> 35508

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B2

<400> 35508

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agaacctgaa cggagaa 77

<210> 35509

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H7

<400> 35509

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agcgagatcg tccctttgtt gcgtctggat gaagacaaaa ctggcaccga acgcttcccc 120

tcgacatcca acacattgag caatgcgatg accgaacatg ctttaaagga tgacctaattg 180
 agccttatcc atgccatgct aggctaggct attgctgcgc caatagtact agtctaactg 240
 tacaccgctt cgttacctag aataaaggta c 271

<210> 35510

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B3

<400> 35510

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 agattccggtt catttgtaca cggccttaac ctactacaac actatcccaa actcaacatc 120
 catctacacc agcaatcact ctattcacct ataatgacct aatccatcta aatcctctaa 180
 catacactca a 191

<210> 35511

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B4

<400> 35511

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 cccccctcgt ctccgccgtc cccactccaa gaagcctgcg cctggggggc cagcagcagc 180
 acccgccggc tctgaagctc acttcttctc aggaggcggc gatcgcggcg gcgatgaaca 240
 tgggcaggcc gacggcgagg gtggccgtgg aggtgaacga ctaccaaccg tccggcccca 300
 acaaccgtca cgaccaccc aagggcccct gaagagcttg ttgaacggcg ctcggttga 360
 cgaccaata atgcttctcc ttcgttggtg tcatctttac cagcagtata gagtgtttg 420
 ctagtgct 428

<210> 35512

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-B5

<400> 35512

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gcaacttttc caatgtgcac aagctttaca tgaaagtctt ctaccctaatt cttcaattag 120
aaccatttct aatctcagca atctagtcta attcttgaat ctttaaactc aggaacatgc 180
cacataaact tctaaagtat catctgacaa ttatgcaagc atatcacacg aataaactcg 240
actattagat gcacatacca ccaattctgc atgatacaac actaatatac cagatactac 300
ataatcaaat taacttcaac gttaattgca tcatatgctc tcaatagccc taaacatttg 360
acaatctaatt atatcttact atgtacaatc atggcttaa 399

<210> 35513

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G10

<400> 35513

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ggtcgtgaat ggtgggtgggt cgctcagctt gataataggg ggtagtgtctg ctgggtgctgg 120
agcgatggag aacggcgatg taaatgagga tgagagaaat ggaaagaaga tcaggggtgca 180
aggaggcggc tcaagtgggc cgcatgccca agttgagggc tgcggagcag atctgactgc 240
agcaaaggat tatcacgcgc gggcacaggt ctgcgagatg catgctaagg ccaacaccgc 300
cgggggtcgga aacactgtcc agaggttctg cccacaatgc agtagatttc accttcttca 360
agaatttgat gaagggaagc gaagttgccg ggcagcgtta gcaggccaca ataaacggag 420
gaggaaaa 428

<210> 35514

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-002-Q1-K1-G11

<400> 35514

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ggtggtggag gtcaagtccc cggctgacaa gctgtgggag gcgctgcgtg actcgacgga 120

gctgttcccc aagatcttcc ccgagcagta caagagcacc gagaccgtcg agggcgacgg 180

caagtcggcc ggcaccgtcc gctcctcaa gtacaccgag gcggtgccga tgctgacgtt 240

cgccaaggag aagcttgaga cggcggacga cgagaacaag gtggtgtcgt acagcgtggt 300

ggacggcgag ctggcggact tctacaagaa cttcaagatc acgctgaagg tgactccggc 360

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cgaccaggtg cctgacc 437

<210> 35515

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G12

<400> 35515

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tgtctgaact ctaccgttgc ccgttggtgt catcttagcg cctttttttt ggct 114

<210> 35516

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G3

<400> 35516

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<210> 35517

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G5

<400> 35517

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aatgtcaatc aagctttgct agagggtcag gagagttcta caccattgga tagaggattc 120
ttgtcaagtg atacatacat catatttgag gctgctccta attcaggaat taaggatgac 180
aaccaaaagg aagctgctag cagcaaactt ttcaaacata aagagtttaa cctggaaaaa 240
ttgggggatag gtgggttaag tgctgaattc actgacatat ttcgtagggc attcgcttca 300
agagtctttc ctctcaagt tgtcagtaaa ttgggcatca aacatgtaaa aggtatactg 360
ctatatggac ctctggtac tggcaagact cttatggcac gacaaatggg aaaattattg 420
aacggaa 427

<210> 35518
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-002-Q1-K1-G6
<400> 35518

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cgagaatcta cttaggatca aaggactttt ttatcagctg atcatcgctt tgactccaac 120
tcaaataacg cgtgacgcc aagtgggagca aagttgggaa aatggatatt ggtgggtggtc 180
cataggtact gaagcaattg aaggacaaaag cactaaagag agcgtggctg actgaagaaa 240
cattgcaaga gcagattgag cagagaaaact gtgcaaggaa gaataaacag tttgagatat 300
ctgatggaat caggaaaaac cttgctacca agggcatcgg cctgatggat gaaccct 357

<210> 35519
<211> 410
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-G7
<400> 35519

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accacgctgc agcccatcct ggccttagga gccacctagt aggaccaac aatgagagtt 120

tctcacggca ccacctgccg tcttcttctc cacagagcag caagcgaagg tgtaacctta 180
gctntactac acgatctgca agagtaggca gccaaaatgg agtccaaatg ttgagcccct 240
cggaaatccc acaaagggac tgggtcccct ctgacttcac cttcagtgcc gacacttcag 300
cggaccaaat tgaagggtgt tggaatgaag atggaaaggg ggaaagcaac tgggatcact 360
tctgggcacaa tcattcggaa aggatactgg acgggagcaa ttcaaacatt 410

<210> 35520
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G8

<400> 35520

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gcgcgcagtg tcgctgccgc tgccccctc ctctgctgc tgctcgccgc cgccgcagcg 120
gggctcgtgt ccgcgcgctc gccggcagcc agcgacttcg tccgcaagtc gtgccgcacg 180
acgcagtacc cgtcgggtgtg cgagcagagc ctggcgctcg acggcgggtc gccgtcggcg 240
cggagcccgc gggaactggc gcgcgccgcg ctggcggtga gcgcggaccg cgcgcg 296

<210> 35521
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G9

<400> 35521

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gaagttcaag gattgatggg ggatcgaaat ccaaagctcg cattaaggca aagataacac 120
atgacagtgt tgtgatgcag acaaaatgaa aacattctat gaaggacatt cgtagtcttg 180
ctgataacag taaggagttc cttgcataag aagaaagcca gataccaata catgaagtga 240
tttgctacag gtattatcat aatgttacca atgttaaagt gaaacacaaa ccgaacgaat 300
attaagaatg gatagaagat gtgtacgatg aggaattaga aaagatgatg gacacatttg 360
aagatgata 369

<210> 35522
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-H1

 <400> 35522

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 atccaagtga ccaacaacag ggtttcaact ttggacaaaa cccatcaagt tggttgaacc 120
 agccattttc ccaggttgaa cagccacgag tggtcaggcc tcatgcaacg gttgctccat 180
 ttgatctgga gaagactaga gaaggaagtg gcttcaagat ttttgggttc caagttgata 240
 caaccagtcc atc 253

<210> 35523
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-002-Q1-K1-H10

 <400> 35523

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 tactctcgcg cgcttaaacc ctagccatcc tctctgcgcg cggcgaccgc cgccatgagc 180
 cgctacgacg gccgcgctgc ggacgcgggc tctaccgcg accgncgcag cgagggggcg 240
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 ctcggagcta gatgggctgc cgagcttcga gaagaacttc tacgtggagt caccgcggt 360
 ggccggcatg acggaagaag aggtgga 387

<210> 35524
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-002-Q1-K1-H11

<400> 35524

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cggcgctgct gctgctggcg gcgggggccc ggacggcgtc ggcggcggtg agctgcggcg 180

aggtgacgtc gtccgtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240

ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgctc gcggcggacc 300

ggcaggccac ctgcaactgc ctcaagagca tgacgggccc ggctcgccgg cggcgtcagc 360

atggccaacg ccgncacat ccccggaag tgcggcgctc ccgtcgcggt gcccatcagc 420

cccaccgtcg actgcacca 439

<210> 35525

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H12

<400> 35525

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agtcaagaca tocaggaaaa tatatgtaga aagaaattta cactaccaga aacttctttc 120

cagttggcac ccccgaaatcc cctgcgtaca gcacctcatc caaccatccc gttctgtagg 180

ttcaaagaag taaaaaacgg acgtcattcg tcagttgtgg aaatgaagca ctacgacttg 240

tgcacaatga atttgaatga agtggtgtcg agagtagaag agatgtcaca agaagaagca 300

tctgtttgcg gtcttatgga tatggatgag cctagtcctc ccagttgtga tgattcagtt 360

gaggttgatg acgacagttg ctatgaaggt ttaactgatg 400

<210> 35526

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H2

<400> 35526

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ggctcgatcc gtcggccatg gcgctggagt ggggtggtgct gggctacgcg gcgggcgcgg 120
 aggcgatcat gctgctgctg ctgacgctgc cggggctcga cggcctgcgc cggggcatga 180
 tctccgtggt gcggagcgcg ctgaagccca tgatgtcggt ggtgcccttc tgcctcttcc 240
 tgctcatgga catctactgg aagtacgaga cgcgccccac ctgcgacgac gagcacgcct 300
 ggacccccctg cgagcacctg cggcaccaga agtccatcat gaagtcgcag cggaacgcgc 360

<210> 35527
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H3

<400> 35527

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 cgaagagtat cggcttcccg aagcttgaag cggatatcag ccgctaccgt cgacaacata 180
 ttgtcagcag tttattctat tctaatttca aggtaaacat tttgagtcta actcttattt 240
 cctttggtac gaaaatattt ttaacgaag gctatttgct cacagaacat gcttttgagc 300
 aaggcattaa aaatgaaca agatttagag gataaaaggc aagaagttat aattgaaaat 360
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 acaggcaaag ggtaa 435

<210> 35528
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H5

<400> 35528

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 ggataatatc tataagcttc atggtatgcc ggacaatata gtatctgacg gggatagagt 180
 gttcacaagt ctgttctggc agcaattatt cactctcagt ggcaccaat tatgcatgag 240

ttcggcttat caccacaat ccgatggcca gacggagcgc gtaaactagt gcattgaaac 300
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<210> 35529
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H6

<400> 35529

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 ctctgtcgcc agactgatct tctagtggct gctgctaaga ctggaaaaat tatcaatata 180
 aagaaaggac aattctgtgc gccttctgtt atgggtgaact ctacagagaa agtaaggctt 240
 gctgggaatc caaatgtgat ggtctgtgag cgtgggtacca tgtttggtta caatgatcta 300
 tttgttgacc caaggaacct tgagtggctg agggaaagca actgccagct ttagctgat 360
 gtaaca 366

<210> 35530
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G1

<400> 35530

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 ggaacgaatc ccatgcgggc gatgagaaga cgtgcggcgg cagcgcaagc gagaagacaa 180
 ggtgtcgatg agcagggatc gtgacgacga catccttccc gccgtcggca acctccacta 240
 cgctgtcaag cttctatcca gttggtctct ctctcttttg ttagctaggg tacttgagtt 300
 gagccattta gtggtcctag tgttcatggg agtggactag aggcgt 346

<210> 35531
 <211> 419
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E12

<400> 35531

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tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc ctcgatcggg 180
agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggag gcgatgcgga 240
acgccatcga aggcataaac ggcaaggagc tggacggccg caacatcacc gtcaacgagg 300
cccagtcccg cggcggccgt ggaagcggcg gcggcggcgg gtacgggtgtt ggccgtggag 360
gcggcggcta cggcgggttg cggcgccgtg atggcgggcg cggctacggc ggtggcggc 419

<210> 35532

<211> 384

<212> DNA

<213> Zea mays

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<400> 35532

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caccggcagc gacgatgtcg gggcgcggca agggcggcaa aggtctgggc aaggcgggag 120
catatcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180
gtaggctggc tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240
gcggcgttct caagatctta ctcgagaacg tcacccgtga cgccgtcact tacaccgagc 300
acgcacgccg caagactgtt accgtcatgg acgtcgtcta cgcgctcaag cgccagggcc 360
gaacccttta cggcttcgga ggct 384

<210> 35533

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E3

<400> 35533

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 gtactcatat gcctattata accgatgcgt acccatgcat gaattgaagc tatcatgtga 120
 gcgaaagcac actgagggct aggttggaac aatcacagct tgtgaataat aatttgctaa 180
 gaaatcgaaa tgaataac 198

<210> 35534
 <211> 271
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 <213> Zea mays
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 ggaaacgact ttcagggact gtttggttga gatcaggcag ctcacgaatc tcctgctcag 180
 cagccagcct gagaacttca tgaacccggt gatcaggcag agaaactacg ggtctctgga 240
 ctacaagaag ctggccatca tttgtgaaaa g 271

<210> 35535
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-002-Q1-K1-E5
 <400> 35535

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 ggatgtcgga ggcggagcac cataccctat ggtcactcgc accatctacg acaaccgggt 180
 tgtgatgatg aaggatcatg tggaggcgcg tggactgtgg gaggcagttg acaccaggaa 240
 cgtcgagcgc aacgaggatt ggtgggctat ggaggcgatc ctacgagcgg tcctgcaga 300
 gatgcatcag tccttggggg cgaaaacgac ggcaaaggag gcctgtgaca acctgaagac 360
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 g 421

<210> 35536
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-002-Q1-K1-E6

 <400> 35536

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 ggnccggtcga tcagctaacg atggatcgat cattttttgc ccatatttat t 171

<210> 35537
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-E7

 <400> 35537

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 cgcgctcacc accgacatcc tcggcctcgt caaagtcgtc gaggcccacg cgaggccggc 120
 gggcgccggc aaggctcgtc agacgtgggg cgcgctgac gcttgccgtg ccatcgttgc 180
 tggctagcta gccgatcgtg ccgccgaacc cggtttggct ggggagagga ggaacagcgt 240
 ggttgagctg ctgaaaacc 259

<210> 35538
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-E8

 <400> 35538

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 gggctcaaat ggctttgccg aggcactggt tgagttcttg aggaatgctg tgaatgatgg 120
 gaatgagaag gcacaagaag ttggtgcaat ggctcttttc aatcttgagc tcaacaacaa 180
 cagaaacaag gggctcctgt tatctgctgg agtcaccgat ctacttgagc aatgatatc 240

gaatccacgg gtatctg

257

<210> 35539

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E9

<400> 35539

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gatgaagctg ggagcaaaag gcctcggcct cctgctcctc cttgtcctgc ttgcgctttg 180
ctccaccatt gaagtcggcg aggcaagaag agaccggcat tggaggctgt cgaggacctc 240
ctcctctcag ctgctgaaga aaggcaaagg aaagaagacc agctcccgcc gccaatacgg 300
cagcaaccgg ccaagtccga agccaccggc cagctcgaca ccgagctctg gtgccggcgg 360
caaaggaaac cagactccgt accaaccaag ccogaatgcc cctcacattc cgaggccaag 420
ccc 423

<210> 35540

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F1

<400> 35540

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gccaagtgt actgaaagcc agctcttgcc cgcactetaca cggccccatt ttcagcttgc 120
ccctccagaa ccggtgcatg aacagttgca tctgactcta agtcgttgct tcctttccct 180
tctttcttag atctagctag ccaccgtgtc gactggcgga tgatacagta tctccacatg 240
ctggttggtg agtgatgacc gtaccttgcc agatctgcag caaactatcc tatgctagct 300
cctcacatcc gcacaaaaca acacctttta gcaaaaaaag tttttttttg 350

<210> 35541

<211> 158

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-F10

 <400> 35541

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 aataaatata aatgctatgg tatgattttg tgaattctga tcgctcaaaa aaaaaacaaa 120
 taaaaaaaaat aataataaaa aaaataaaaa aaaaagaa 158

<210> 35542
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-F11

 <400> 35542

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 agcaatcctg acacttctgt tcaggcagca atgtttgtca aacttctatt caataatcac 120
 actatccagg aatatgcgac cagtgaacaa gtcagagtta taactgcttc tattgaaaag 180
 gatatatggg cttctggaag tgctaacgaa gaatatctca aagcacttaa tgctttgctt 240
 agtaacttcc ctggtttgag ggtcactgaa cctgccacat tgtgcattcc tcattcttga 300
 acatccctta aaacctgttc tgaggcaact caagaagcag cgctagattc actatatctt 360
 ctcaggcaag cttggtcagc ttgccagct gaagtattta aagcacaatc agtggctgca 420
 tc 422

<210> 35543
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-F12

 <400> 35543

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 actgcacata tctatttcaa tcattccctaa tgcactcaag cagttataac caaatgggtt 180

tcaagtggcc cgtaacctgg gcgcaatcaa gtgcgggaccc ctaatgtgta ttagcatctg 240
 acgcgggggc tgtgccctaa tacagatgga agatgaacct accagtcact tacagaatag 300
 ctcataacgt ggcattctaa aatggagtat catttgtgat tagttagacg tgaa 354

<210> 35544

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F2

<400> 35544

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 agcgcacagg ggagcactga cttctgcaag gctcatggag ggggcaagcg atgcgcttgg 180
 agcaccggct gcgacaagtt cgctagggga aggagtggcc tatgcgcagc gcatacgacc 240
 ctgatggctt ccaaggtagt gcaccatcct ggacatgcac gaagcatggt cgggccttgc 300
 cacttttagcg gcggcgtctc tggttcgtca gcagctgata gcaacatgga tcatgcca 358

<210> 35545

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F3

<400> 35545

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 gacggcggag agcataagga aggcacgtg gagaagatca aggacaagat caccggcgag 180
 cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 240
 aagaagcacg gcgagggcca cgaccacgac cacgacggcg gccacagtag cagcagcaac 300
 gacagcgact gagatctggt gttgcagcac aggtgcaaca caagtatgct tgetggatgg 360
 aagattcata ccagctgatg gctgatgaag tgtttcactg gtggcatgca tgcattatc 420
 gtgctattat a 431

<210> 35546
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-F4

 <400> 35546

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 gaccaccaca agagggacga cgatcaccac aagaaggatg atggctagca ccacaagaag 120
 gacgggctg agcataaaga aagcatggag gataagatca gggacacgat caccgtcgag 180
 caccacaaca tggccggcga cca 203

<210> 35547
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-F5

 <400> 35547

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 caggacctcg gagagcagca cggatgactc ccaatccccg aaacaagaga aggcgccgtt 120
 cgggtacacg aggaaagacg tgctgctgat cggcctcggc gtcaccgctc tcggcgctcg 180
 cctcaagtac gggctcgagc tcctgggagt tgaccccttg caggccggca acgtcgtgca 240
 gctgctggtg gtgctcgga tgacggtgga gtggatctac acctacatgt tccgggtgag 300
 caacaaggac atgacctact cgcaccagct cagggactac gagaagcaag tcat 354

<210> 35548
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-E11

 <400> 35548

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 tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc ttgatgtggc 120

caacaaaatc ggcacatcatct aagtgtctgca ttaggcatcc tagttcatct gttgtgtcct 180
 agttctatgt gaaaccagag ttttgtagct atggctctca atcgttccat taccatgtgt 240
 tatgcacact tctgaatttg atatcatcca agtgaccttt tgaact 286

<210> 35549

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F7

<400> 35549

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 tgctgtgtgt cctctccgtc tcgtcctcgt catcgctcgtc ggctgtgtcc acgctcgccg 120
 tcagcgctcc gccccactg cctgttcctc ctctcgtca tgctcaagac gccgaaggca 180
 tgctcatcaa cggcaacttc gagacggcgc cgcggaagct gaacaagacc ctgatcgtgg 240
 ggcgcgaactc gctgcgggtg gggacgggtg aaggccacgt ggagtacgtc tcgggcgggtc 300
 cccagccccg gggcatgttc ttcgcggagc cgcacggcgt gcacgcgctg cgcctc 356

<210> 35550

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-F9

<400> 35550

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 tggatgtttg gatcgagggtg gaggctaacc agtacaccgc tgcactgaat cccatcctct 120
 tccaggtcct catcagtcct atgcttgggg gaaccaccga ccagaaagtt gcggatgaga 180
 accttgagaa gctgaagaag gtgctagagg tgtacgaggc acgcctgacc aagtgcaagt 240
 accttgctgg agacttcctc agcctcgccg acctgaacca tgtgtctgtc actctctgcc 300
 tgttcgctac gccctacgca tctgtgctcg acgcctaccc gcatgtgaag gcctaggtgg 360
 tctgggtctga t 371

<210> 35551
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-C5

 <400> 35551

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 ctatcgacaa ctgctaaaac agagtgggcc tatcctgtat aaggagcact ctggtgtaaa 120
 tattggattt agaccgatgg ctgatgaacc tacaagcttc ttatatgcct catatacata 180
 tttcttgata cacacaagtg cgtctaaatg tcacataacc ttgcaccctt actaggtctt 240
 accgcttt 248

<210> 35552
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-C6

 <400> 35552

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 atccaccacc attagatgct catgtggttg cttctgttat gactgtatgg agcaagcttc 180
 aaccagagta tgctgctaata atgtggaaag aagcccttaa caaacggctt ggaactaagg 240
 gtcttgacct ttctgaaatc atagtggaat cagagaaacg tgggataaca tttgacaagt 300
 gtctaactgt tcttgagaac gatagctggg tctatgaaga tggtcagtca gcattctt 358

<210> 35553
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-C7

 <400> 35553

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agacaattta cagatgtagc cccatcacat gccagtgggtg gagggtcgaa ttgatgaatc 180
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 gtagagtaaa attgttaatc tgaatgttta tgccactttg atttgatttt aacgtagggg 300
 aatcttctga ttttgcgggg agtaaaccac taaaggtttc attgtttgat tttccattat 360
 atgtggcata gaaatatctt ctctttgatg aaacaaccaa gggagtctta ttttttttga 420
 catcagacga aaatgccttt tcacctttcc tg 452

<210> 35554

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C8

<400> 35554

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 ccgtggggccc agatggcttt ccttccctga ttctgcact tcgctggtct ccttgaattt 120
 cgcttgcata aaaggggagg tgaattctgg tgcgttgagg agacttggtg ctaggtctcc 180
 aaatctacgc agtttgaggt tgaatcgttc tgtttcagta tacacactct caaagatact 240
 attgcgagcc ccaaatttgg aagacttggg gacaggtaat ctgacagatg agttccaagc 300
 tgagtcctat tccaagctta ctagtgtctt ggagaaatgc aaaaagctga gaagtctgtc 360
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<210> 35555

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C9

<400> 35555

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 catgttgatc ctgaaattac ctacctcaa aactacgaaa gtcacttcac cgtacctttc 120
 aatttcaagc gccggagaag agagtactga gaggcgacaa gaagatcact agacaccact 180
 gttcgttcta ggctatcttg agaaaggctt cttggtgggc taaatgacca aagactatat 240

gcaggactga gtgggtcattc gaacatcaac tgagctatcc agtagccagg ttgtaagtgt 300
 gttgtaatgc ttcaatgcgt atcattctcc aaagacctga gcttcgcttg tgatttggtc 360
 cgaactgtac ggtgtcgatt ttgtgtatat aatataatat aacg 404

<210> 35556

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D1

<400> 35556

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 taagtgagtg ggtcatttag taactgtata ttggcaaaat gaagtaaaac aatagacaaa 120
 gtacagatgt agcccatca cgtgccattg gtagagggtc gaattgatga 170

<210> 35557

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D10

<400> 35557

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 tcccggggcg acgacggcgc gccgtgctg agcgacgagc agatcgccga caacgtcatc 180
 ggcgtgctgt tcgcggcgca ggacacgacg gccagcgcgc tcacctggat cgtcaagtac 240
 cttcacgacc accccaagct cctcgaggcc gtccggggcg agcaggcggc ggtccgcgag 300
 gccaccggcc gcgggaggcc accgctggcg tgtgcgcaca ccaagaacat ggcgcttacg 360
 cataggggtga ttttggagag ct 382

<210> 35558

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D11

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ggattttgat gcttttgatt tgcgattgag gcttcctgct gtggttagca aattgcacaa 180
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gcacttctgt ttgtttgaag ataagataat atacctatta tctgtgcacc cgaaaaccaa 360
catctaata ga ttgcctgctt gtgggaattt tgatgggtccc ccgcatctgt tctctatagt 420
ccatttatgt tgggatacgg g 441

<210> 35559
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D12

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ttgcacatgg ctggattgct tttatatgct cactgggtctt cataagtgggt attgcttatg 180
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cattcacagc actggccgct ggaacctcat ggccagatct agttgctagc aagatagctg 300
ctgagcgtca agtcaccgcg gactctgcaa tagccaacat cacttgcaat aactcgggtga 360
acatatatgt tggcattgggt gttccatgggt tgattgatac agtgtacaac ttcttcgggt 420
ac 442

<210> 35560
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-D2

<400> 35560

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tttcgtgctc ctgatcagcc gccagggcaa ggtgaggctc accaagtggc attctcctta 180

cacccagaaa gagaggacca aggtcattcg cgaactcagt ggactcattc ttacacgagg 240

gcccacaaactt tgcaattttg ttgagtggag aggttacaag gtcgtatacc ggaggatatgc 300

tagcctgtat ttctgcatgt gcattgatgc cgaggacaat gagcttgaag tccctgagat 360

catnccatcat ttctgctgaga ta 382

<210> 35561

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D3

<400> 35561

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cattcgattc acatatattg ggtgcaccca taaggcgagg gcattctatca caaaagtctg 120

tcatgaagcg aaagagatct ttcaagagac aaaaagccaa gttggtcattg gaaagcttga 180

aatttcattg catgacaatg atgaagagga ggcagcattg cagagagtgt cccaagctga 240

acgtgcgcca aaataggctg tacacagagc tattcgactg cgcaacaagg tccaattctc 300

atgacgaaca tagagctcgc aacatacaaa tctatcatgg ctctc 345

<210> 35562

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D4

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ccctccatct ccatgcatct ccaatgaaca acaactgaca gctctccgtg atctatctat 120

ctccttcggg tagctttttt tgcattggcc ttgcaagtgc tttattgcta gagtagctgc 180

gcttgcatta ttaactagat aagttagtga tggatctcgc gacgaccccg gcgcggctgc 240
ggcccatgga gcctggactg gcacggcgcc ttgtgcacgt ggtggtcggc gtgtgccaca 300
tacttggagg cggcctgttc cccaaacgca ttatgatgga c 341

<210> 35563

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D5

<400> 35563

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cccctgctgc ttcgaggctc gctggcatag tcgtggatga ctcccagcca ttacatcca 180
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tgggagacat caggctcttc atcgacgcat ctcggcctgg aaccgcaagg ccgtatcagc 300
tgcagacagg tttccacccc aagcagctgg ctgaccaac gcagaccgtg gtgcaagctg 360
gactggcaaa ctcggttatc atgcagaaga tgtaatgttt cgacaacatg ggtaactagg 420
atgcatcgta ctgcatcctt tgagaac 447

<210> 35564

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-D7

<400> 35564

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ggggagcata ctcaggtcct tctgcgacgt gtgcagcgcc ttcttcggga gcaagctgca 120
aacgctgcag gacacgctgt gcaacacccg caccgactgc tacggcgacc tcctccgcga 180
gggcgccgcy gcctacctca actccatcgc cgacgagaag tacgcctaca gaacgcacca 240
agttcaggac tgcacgcagc tagcgctcac tttca 275

<210> 35565

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-D8

 <400> 35565

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 tgtgactttc caaaggctag gatagactta tttctgagca aaaatatata tgcagccatt 120
 ggaagtaacc atttggcat tgaatttgga atttgatcat gtggaacatt ttagaatatt 180
 tgccaagcat atacctactt aaacaaaaag gtctacacat ttgcacaact gttaaccaac 240
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<210> 35566
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-D9

 <400> 35566

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 atctggtcct gtgacagcga cgcccaacgc tgcttgtgga ttccaagaaa gcagctatgg 180
 cgtgggtggag gtggagctcg tcttgctga cagccccttc gcgcccccca ccaaggagga 240
 ggctcatcac gctgatgctg tcaactgctgc agccgctcgg aacggtagca ccagcagcag 300
 cagccctcgc catgtggccc ttttcgcacc cgcgtcttcc accaccctcg agctgcccc 360
 ctacagctcc tctgcttct ttcaggtgcc caaggtttc 399

<210> 35567
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-E1

 <400> 35567

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cottagacaa aaggttgctg ttgctactgg agcgctccct gcgacacctc ttgtttcttgc 120
tagggcaccc atatgcattt ctgcttgaca tactacggag gacctgattc aagcccttga 180
tgttatcagt cgagttggcg accttggtggg cattaaatgc tttcctgtcc aaccaccaca 240
gattgctcga actgatcatg attagctcga cttacaatca acccttactt gccc 294

<210> 35568

<211> 421

<212> DNA

<213> Zea mays

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<400> 35568

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gcttcctcta ctgcctcgcg aggcctggac tcatcaccga gcccgactac ccggccgacg 180
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tatttggggc tgcacagctg attgaccaca agtacatgaa gcccaagtcg attcacaacc 360
cagatatctt ggaaaatttc ttcaaggggt acatggatct ggcaggcgtt gcatatgtga 420
a 421

<210> 35569

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-E10

<400> 35569

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acacactaca cacactctaa tctatccaca cagccaacac agataccgac aatacaggag 120
gatgaagatc tcagcaaaat gtc 143

<210> 35570

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B1

<400> 35570

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cctgtcccag ccctagggct cgtagcggat cgtgagggat gattttgtgt ggtgtgtcgc 180

atgtgtgaaa tgcctttgtt gtcccaatat tcctaccgtg ttgggggtgg tcgcttgctc 240

gcgtccacgt ctttcacatg aattgggttac tgtggtagtt gtaactctgg atacgggtacc 300

aaaacataag tattgtctgtc aacaatctgc aacagccggg aaaacagtcg ataacctttg 360

caaataatac cttgtggcgt ggaaa 385

<210> 35571

<211> 418

<212> DNA

<213> Zea mays

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<400> 35571

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attcaaccga gagtagagga tgcagtactt ggccggcgga aagctgaaaa cgcaatggct 120

tggcgggcag tgtttacatc ggccgggttt gctccggtac cgctcagcaa cctcgcagaa 180

gcacaagctg actgcctgtt gaagcgcggtg cagggtccgag gattccatgt ggagaagtgt 240

ggaatgggtc tagcactcta ctggcagagc ggcgagctcg tgtctgtctc ggcatggcgg 300

tgctgatcat acggacccca tccatcaacc atcatgacac ctacaccaat ttgcaggcat 360

gtttaaccct ggtaatgtgc attttgtctt gcaatttcaa acatcgtgaa gaaaacta 418

<210> 35572

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B12

<400> 35572

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ggctaggtcc tgcggcgcaa aagctgtaga tgaaggaatc agtgtgcagg atggcagtc 120
ctaataaagt aatttgcttt gttagtgtctg tttttgtgct atttcgcact gtaaattgtg 180
tgctacccta tctgggcttg tacagaccac ggaaatacat agtgcgtcac gtcagctatt 240
tggggtgcctg tgctttgcct ggtagctagg aattactatt gatcgccaga tgctccaggt 300
gcaaattttt ccgtggactg gttcacttat ttgattcaac tatgtcagaa tggtagatgg 360
tgcgaaacttt agcttagata gtgagttgaa gttgcagcat g 401

<210> 35573
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-002-Q1-K1-B2
<400> 35573

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ctcgctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggtt cggttcgtc 240
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg gaaggagctg 300
gacggccgta acatcacgt caacgaggcc caatcccg 338

<210> 35574
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-002-Q1-K1-B3
<400> 35574

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ccaaacgcaa gttcagaact ttggagaacc tttttttatg gttattcgtg aggatgagac 180
cctatcttct atcaaagagc gtatacagag aaagcttaag attccagatg aggatttctc 240

aaagtggaag tttgcataca tttcacttgg tcgtccagac tatTTTgaag attcagatac 300
 tgtaacttta aaatttcaga gaaacatgta tggagcttgg gagcagtatc ttggactgga 360
 acatccagac aca 373

<210> 35575
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-002-Q1-K1-B4
 <400> 35575

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 aggttcattt gaggcacttg caaagaggat gaatgcataa agcgctactt tactaggatc 120
 tacatggctg cggttagcta cggatagaca ggcaaaaccg ctttcagtcg aaactacatc 180
 taatcaggat ccattggtga ctaaagg 207

<210> 35576
 <211> 144
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-002-Q1-K1-B5
 <400> 35576

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 aagattatta acatataagc ttat 144

<210> 35577
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-002-Q1-K1-B7
 <400> 35577

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tggatgggtg tggttagctt tggataaaga ggcaaaaaag ctttcagttg aaactacagc 180
 taatcaggat cctctggtga ctaaagggtgc aagcttggtt ccgctgttgg ggattgatgt 240
 ctgggagcat gcgtactacc tgcagtacaa gaatgttagg ccggattacc tgaacaacat 300
 ctggaagggtg atgaactgga aatatgctgg agaggtgtac gaaaatgttc ttgcttgaat 360
 tgtcttaatg gacaatactc atct 384

<210> 35578

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B8

<400> 35578

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 gtactccata ccatgtctgt ataggaaatc atgagtatga ttggccatca caaccctgga 120
 aaccatgggtg ggctacatat ggaacggacg gtggaggcga atgtggaata ccttatagtg 180
 tcaggttcag aatgccaggc aattctattc tacctacagc taatggtggc ccagacacca 240
 ggaatcttta ttactccttt gactcaggcg tgggtgcattt cgtctacatg tcgacctgaa 300
 cagattttgt tcaggggaagt gagcagcaca acttcttgaa agcggacctt gagaagggtga 360
 ac 362

<210> 35579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B9

<400> 35579

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 tggaagtatg cttagaatac ttctacaaag tcctaggatt ttgcagattt tgtttgagca 180
 gctaactaaa ggctcctaag tgatgaagga aacatagctg agcagcaaatt gaaacacaac 240
 tttccttttt tggagcagaa taccaattct tcaactgagt ttgccttggt tttttagctg 300

gacggtgatg agtttctggg ctaaataaaa cctacaaaga tggctcttct ctggtctacg 360
attctgggga ctgaaatgca agcatgtgtg atctgtctga tgtctgccaa gaaaaag 417

<210> 35580
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C1

<400> 35580

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gctgttactc ttgagaacaa gctcagcgtc ttgtcatatc ctctgcaagg tgcacctggg 120
gtaaatattg ggtatggccc gatggctggt ggccccagat ggtagccta tgccacaaat 180
actcctttat tgtcaaacac aggccgtcta agtccacaga acctcacacc ttcaccaggt 240
gtgagcccat ctacttctcc tagcagtggc agtttagttg ctagatatgc aatggagtcc 300
agcaagcaat tagcttctgg tattattgac atgggatata aaacattttc aaagtaccgc 360
caggaacttc taccagatgg ttctaacttc 390

<210> 35581
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-002-Q1-K1-C10

<400> 35581

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ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc 180
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ggccaacgcc gccaacatcc ccggcaggtg cggggtctcc gtcggcgtgc ccattagccc 360
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ttgatg 427

<210> 35582
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-C11

 <400> 35582

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 acgaggagca gcccgccggc gagtacgggt actccgagac cgaggtggtc accgccaccg 180
 gcgagggcga gtacgagagg tacaagaagg aggagaagga gcacaagcac aagcagcacc 240
 tcggcgaggc cggcgccatc gtgcagggcg ccttcgcact ctacgagaag cacgaggcga 300
 agaaggaccc cgagcacgcg cacaggcaca agatcacgga ggaggtcgct gcccgggcgg 360
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<210> 35583
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-002-Q1-K1-C12

 <400> 35583

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 atagtagaaa tgcattgacgc cttcaaaaat atgttcttaa catagatagt tgtttctatc 240
 attctgcggt cagatatatg tgcattgtn tgggaacact agcagctggt aactgatttt 300
 tatttgtcat gcctattttc ttgtacctg tattcttctg gtgcaatata agctctatct 360
 ctct 364

<210> 35584
 <211> 219
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-C2

<400> 35584

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ccatagcgcc aaatagtcac ccaatgaata ttctatctga ctctttgtat acctctctct 180

tagtttaaac gggctatcta ttctttactc tcaaacaga 219

<210> 35585

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A9

<400> 35585

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atcgggacat tgccggtgct ggacgacagg gccctcacgc ggagcttccg ggaggtgagc 120

ccaccccccg aggcgtgagg cggagagtgt ggcccatgg tgtccccac gctgctcgag 180

gcgtgttcc ccaagtggat gagctgttcc tcgaagactt ccaggccccg cccacgagc 240

tcttccagga gtttgactac cagccattg ctgcagcgag cctggcccaa gtgcaccgtg 300

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gctttgatgg cgacattcac accctgtagc tc 392

<210> 35586

<211> 323

<212> DNA

<213> Zea mays

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<400> 35586

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ccataagtcg aataagaagc agttttcatt tggaatatat attggcaagg ttatttcaat 120

agacattaca gatgagccat cacatgccat ggggaggctcg aatgagaatc tgtaactgat 180

aaacttatta aaaatagtaa gtatatagta aaaagttatt gtagagaaaa tgtaatcgaa 240
 gtttatgccca cttgattggt taacgtgggg aatctttgat gttcggggag gtaccactaa 300
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<210> 35587
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-001-Q1-K1-H11
 <400> 35587

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 gtttcgggt ggcgcaagtc ctgctggacg cgtntacgc gctggggctg tggtagcgcg 360
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<210> 35588
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-001-Q1-K1-H3
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 cgacacacac ctactcgagc gaggacgcac tgccggaggg ccccgagtcc gaccttttcg 240
 tatactactg caagcactgc gctcacatg tctcatcac cgatacccaa ttgcagaaaa 300
 tgcccaagcg aaagactgac agagcacatg ttttagacaa ggctaagcat ctttcaaggc 360

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402

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<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H5

<400> 35589

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tggacaatca cattgaatac tttcaagaac aatctgcct tagacataat ctttgtccca 180
ttttcttttt ggaacagccg ttaagaagac tccttaattt gagatccatg tctctgctgc 240
ccggacctgt ttgtcccaa ataggggtgt gttatagtga ttcgtacttg atgctttgag 300
cttcatggac tcttgctgg caatgtttat cccattgta cgtctggttg ttctgctgct 360
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<210> 35590

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H6

<400> 35590

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gtcgtgtaa tgctcaatct gaggaacttg gaatgcagca cattgagttt ctcaacaagc 180
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gaaggatgta tttgtaccag aacagttctt tattagatgt atgatgatga ccttaggttt 360
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<210> 35591

<211> 185

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-H7

 <400> 35591

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 gcgggagcta tggtagagcc tgctgagaag cttgctgagc atcttattga gcgtattatg 180
 gaggc 185

<210> 35592
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-H8

 <400> 35592

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 accaggacac gctgtacgtg cactcgctgc ggcagttctt ccgcgactgc gacatctacg 180
 gcaccatcga cttcgtgttc ggcaacgcgg ccgtgggtgct gcagggctgc aacctgtacg 240
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 accagaacac gggcatctcc atccagaggt gcaaggtggc ggcgggcggc gacctcgccg 360
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<210> 35593
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-H9

 <400> 35593

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 ccgttattgg aggcaatgat ggcccctcag aagctgtcta gttcagcttc acctcatcca 180

cactctgaag ctctgaaatc ttgaccatg caagttctca acagtatggc agcattttatt 240
gcccttccat ccatactgca gcgaatctta caggacccag tttattgaaa aggaaaactt 300
ggagaaatcc aaggccttat tctgggaatg ttggatacct ttaactatga acagaccctg 360
ctggaaacga caacta 376

<210> 35594
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A1

<400> 35594

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tcagggccaa cgtcctgggc atcaacctca acctgcccac caacctcagc ctctctgtca 180
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gatcgatcga tctgcaggct aaataatttc tccaagctag tatacgtacg ttgatatata 300
tatgatgtag tattattata tatatgtcca tgcattgcaat gcatctcgtc gtc 353

<210> 35595
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A10

<400> 35595

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tgcgctcgcg gacgcgcgac ctgttcgcgc gcccttccg caagaagggc tacatccgc 180
tcaccaccta cctccgcacc tacaagatcg gcgactacgt cgacgtcaag gtgaacggcg 240
ccgtccacaa ggggatgccg cacaagttct accacggccg caccggtcgc gtctggaacg 300
tcaccaagcg cgccatcggc gtcgagataa acaagcaggt gaatggtcgc atcatcagga 360
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 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 35596

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 aaagagttca ggaagctatc gcaggctctt ttatttggca ttgcctccat ctgtctaccc 180
 ttcagtgtgC aaaatgatca gaacatattg catgaatcca tcttctcacc ttggatggac 240
 cagagtcatt gttgagaagc cctttggaaa ggacttggat tccgctgaag aattaagtgc 300
 ccaacttggg gagctattcg aggaacacca actatacaga atagaccatt acctgngaaa 360
 agagttagtc caaaacttgc ttgttcttcg ttttgccaac cgattgttct tgccctctttg 420
 ganaccgcga catattgata ata 443

<210> 35597
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-002-Q1-K1-A12

 <400> 35597

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 gtctgagctt tcaggcgcgt tatectattc tctttcattt gccgttgTac tgatttcgTt 180
 accctacaaa gtacctaata aatctacaca ttttgcgTct atctatatTTt tcaccttaac 240
 tgaaccagag tcattgctat gaagcccttt gtatacgact tgcataccgg ttgcgaatta 300
 agcgtcacia ttggcgcgct cttcgtgga 329

<210> 35598
 <211> 392
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A3

<400> 35598

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cactcagggg tgtggcccag agcttacagt ggaagcgcag tgccacagat tcctcaactg 120

ctgtaaaacc aagtcaggct gcaccttcag ctctctgggaa tcagttgggtc accccgaccc 180

cacgaagctt cacctacaca cgcacggagc caaaacaaaa tgacgggtgcg atggcttgac 240

tgctcagctg cagcatgccg cagctcctga tgaatctcgc agaaagagtt cgtgatactg 300

ttacgtgggtt cattcagctg cttttggtaa atatttaagt agctgcagat gttaagttgg 360

aacaagctgg tttttgtgga caaaaaactt tg 392

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A4

<400> 35599

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ggaagggcgg caagggcctg agcaagggca gcgcgaagcg tgaccggaag gtgctgcgcg 120

acaacatcca ggggatcacg aa 142

<210> 35600

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A5

<400> 35600

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ggagaacgca ttgcgtgctt gttgtaaagg aataaaaatt gggaaaattc taattcatcg 120

tgttgagac aatggacaac agcttggtta tcacaaactg cccatggata ttgctgaacg 180

acatgttcta cttttgatc cggtgcttgg tacaggcaac tcagtagccc aagcaattga 240

ccttcttata agaaaaggtg ttcctgagga tcggatcatt tttctcaatc tcatctcggc 300
 tcctgaaggg attcagtgtg tctgcgagcg atttccttcg ctgaagattg ttacatctga 360
 aatcgattat ggtc 374

<210> 35601
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A6

<400> 35601

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 gctctctgaa aaaaaaatca gttgcgtaat ctgtccaatg ttgcatttga gctattgcmc 180
 tagttaatcc ttttattttc ggtatgactt gcagtgccctc tagagatgga gattctatgc 240
 taaggggttta ggagctgcat tgggtggatgg tacattgtgc tttctgcgcc gtgcttgctg 300
 aaagtctatc tgaatgtagt ttaaaggatg gtttatgcaa gtgttcccga tatttc 356

<210> 35602
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A7

<400> 35602

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 tgacagttgt catagtagtg ctgctctact tgatcatttc tgctttctgg ggaggccttt 180
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 ga 242

<210> 35603
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-A8

<400> 35603

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caagcaaaca caattggaat ccatggccag cgaaaaggct gcgttagagt tccaactgga 180
gaaatcattg aaacaatttc atgaagtgc gattgaggca gaaaggagta aagctactcg 240
cagatcagca tcgtcgtggg aagaagatgc tgatatcaag gcattagagc ctgttcctct 300
acatcatcga cacatggcaa cagcaaata gcagttacaa aaggctgcga agctttttaga 360
cacaggagct gtgcgctcaa caggattt 388

<210> 35604

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-H1

<400> 35604

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gctgaactac gagctcaaca accgaagaaa gatcgtgaga tccactgggc gccgactcca 120
ggctatgatc atatcaagcg cccgcacccc agcaaggctg actgctgccg tcgagcagta 180
cctcatggaa cacggccttc agtacacgca ggcgcaacca ggcctcttcc gcgtcctgct 240
ctagtgatgg agccggccta gctgttgtca catagacgag aaagaagacg taaaaagttg 300
tacttgcgta tatggcagag atggctagca ggatagaagc gttaagatag ctcatgcatt 360
cacatatcag gcttttagcat atgtatacat cttacaagtt gcggagtt 408

<210> 35605

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F5

<400> 35605

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atatgaatag atttactgta cttataaggg ctggtgtgac tcagccgttt gctcctt 117

<210> 35606

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F6

<400> 35606

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gttggaaaaa tccaagtgac tgcctttcag tcagaggatg aactacagga tgaatctcat 120

gtacatgact gtatggctga ctacagatta agtgaggcct tattgtctaa ggttacctgt 180

gatgtagtaa ccgaggagct gaatgtgaac agatgctctg aatatctgta cttcacatgt 240

agtattgttt taagatcggt atatgagagt ttgagcg 277

<210> 35607

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F7

<400> 35607

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acatcctggc gtcgtggacg ggcaaggccg ggccgacggg cctcgccgcc gacacccgcc 120

gcgtgggctt caacatcatc tccggcacgt ccatgtcgtg cccgcacgtg agcgggctgg 180

cggcgctgct ccggagcgcg caccgggagt ggagccccgc cgccgtgcgc tcggcgctca 240

tgaccacggc ctacgccagc tactccggcg ggtcgtcgct gctggacgcg gcgacgggcg 300

ggatggccac gccgttcgac tacggcgcg ggacgtgga ccccgcgcg gcgctggacc 360

cggtgctcgt ctacgatctg ggcacccgcg actacgtgga 400

<210> 35608

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F8

<400> 35608

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aacgaaaatc tccaggctcc agctgctagc tgtcataccc tacaagtgat ggcaccacac 180

tctacactag aattgttacc tagtgctgcg aacagcagca ggtcaaggcg tctgtagact 240

ctacatgtaa ttctcgaaag aaccaagact tctgcattta atgtaggata agctgtgctg 300

tgctctt 307

<210> 35609

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F9

<400> 35609

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ccgctattca gcatcaagtc gagtcttcac atagtccgtt agcgctaact ctaaaagaaa 120

tcatcaattc tgcacatcc atcaccacaga gtttttcacg ggagttactt gatggcaatc 180

gcaagctact ggcacttggt acttctggga atgccatggc acataatacc agtgctttgc 240

agcccattaa tggtcctatg ggtggatccc aggagggtga ggctccgtta gatcctatga 300

aagagctggg cagactgata tctgaacgca agtttgacga agcatttaca atggctcttc 360

aaaggagtga tgtttcata gtatcgtggc 390

<210> 35610

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G1

<400> 35610

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tgtgtcgccg tcgtagaagc agccgcgcgc tgtcgtcgtc gtctcgtccg cgacgcgacc 120

actgcggcgg ctgctgctgc ctcttatgct ggccacgcca ccgacgcttt tgtgatacca 180

tactaagcgc cgtggcgggc acgttggaga tgctgcact ggggtgggcaa cagcagcacg 240
gccgctgaga ccaggccagg gcgcgtactc acgtggactc gccagctgca cggtcgcttc 300
gtgctcgccg tggcccagct cggcggcgcg gacaaggcga cgcccaagtc cgcgatgagg 360
tcgatggccg cgtcggggct cacg 384

<210> 35611
<211> 283
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<213> Zea mays

<223> unsure at all n locations
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<400> 35611

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tggtgagggc gcgggagctg gtggctctgg gtacgggtcc gggcaaggat ctggctacgg 120
agctggcagc ggtgctgccg gtggatatgg gagtggcgga agtgggtggag gtggangtng 180
ccngnggnca ggggtgggggn tncggatatg gccatggaag tgggtgaagga tacggttctg 240
ggtctggctt tgggtgggtgt gctgctggcg gcggcggtgg aca 283

<210> 35612
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G11

<400> 35612

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gcgcacgcgc ctccgtggca gcgctcgccg gcggccagcg gcgtcacgga cgcggacgac 120
gcgtctccgt acgcccctct agcggcgctg cagcattacc tgccgtcgaa cgaggtggcg 180
gcgtacgacg aagacgacga ggaggcggcc ctggcgggcg cgaccgccgc cgtcgacgcg 240
tacgcctgcg acgagttccg gatgtacgag ttcaagggtgc ggcgggtgctc gcgcggggcg 300
aaccacgact ggacggcctg cccctacgcg caccgggggg agaaggcccg gcggcgcgac 360
cccaggcggt accactactc cggcgcccgcg tgcccggtact tccgcaaggg cgggtgcaag 420
cgcggcgacg cgtgc 435

<210> 35613
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-G12

<400> 35613

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ggcagagnnc gctcanggtc accaccgcga ggccctccgac gccggctgcg tccgtgccgt 120
cctcgccgag ctcatcctca ccttcctctt cgtcttcgcc ggcgttggct ccgccatggc 180
aacaggggaag ctggccggcg gcggtcggga cacggtagtg ggccctgacgg cgggtggcgct 240
ggcgcacacg ctgggggtgg ccgtaatggt gtcagcggtg ctgcacgtt 289

<210> 35614
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G2

<400> 35614

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gattgaacga tgaatatcgt gtcataccag gacttggaga gtatggtgat cgatacttcg 120
gcacagacta accgatgact gatgctgtcg tagttagcag tgtgaaaagg tactcaaatt 180
agagctgaca ttaccgtggc agatatactg gtgttttggtt gctttatggt atactggaag 240
acaaacgtgg ataggtttct ggtaggtgct gaaaccgtga ccgtgtggtc ttgtccatta 300
tcatatgttt tgataccaca aaccgttggt tgtgaggcaa atttgatttt ttttgcattt 360
tgaggctcct agctgaagtg cctgcttcta gtcacacaat actgttatac a 411

<210> 35615
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G3

<400> 35615

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gtagcggtat tagatctgat aaatcaactc caaacgacat caacacatac cggaaggatga 180

tgaggagtat tacagataac attaccgagg agaagcttct cgaatagact gatgtgataa 240

cgctcctgcc gatgtatgtc gataggatga atgttcctgt tcatacagag atggcacatc 300

atcagcgaag attgtcacca cagtgttagt ctcgttgcta gagtgtggg tcgctctcct 360

agccagcggc tggcttatgt agctgtgt 388

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<211> 412

<212> DNA

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<400> 35616

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agaggatatt ctgacaatag aagtaaggcc tggttggaag aagggaacaa agattacatt 120

tcccgacaag gggaatgaag ctccaaacat gaaagctgct gatattgttt tcctcctcga 180

tgagaagccc catgatgttt tctctcgga tgggaatgat cttgtggtga ctgagaaaat 240

ctcgctggtg gaagcgctga ttggatatac tgcacgtgtc actacgcttg atgggcggag 300

cctatcattg cccatcaact cgataatcca tccgagctac gaagaggtag ttcctagaga 360

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<210> 35617

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G5

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catccgctgc tctacgectg cgtcttccgc gacacccacc tcgtcgccga gctcgaccac 180
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 ccgccggtcg cactcgccgc cgtctcgcg ggcgcc 397

<210> 35618
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G6

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 actggagggtg ttcatgcctt gcatgatttg tacatcttac catgtagtat gaagcgatcg 180
 aatcgtaggt gacattacaa acgcagagag gcatacttat cagatagtga gttacaaaag 240
 tgtttttggc atgaccaagg atgcattcta ccgtctagcc aaattggaag caagaactac 300
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 aatg 364

<210> 35619
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-G7

<400> 35619

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cgggcggtcca tcgagcagtg gctgcagacg gaggcgcaga gcttcgacgc gccacgcgcc 360
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<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 35620

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ggccactctt tgggtgaattt acttgtcaaa atgctgtttt ggctgagcgt ttcattgaag 240
cagatatatg ctgaaattgg aaaaggctga tgtatacagg ttaccgtatc tatccagtgg 300
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agaattttcg ccggattttt gtccaaacgt tgggaaaaac 400

<210> 35621
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ctgacttcaa ctagtgaat actcaggcac cgaggcacgt tacgagcggg tcggcgtgta 240
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actatggacg acgtcgctc tgttctgtac gaggcattgg ttgccatcat tattctgtta 360
gcttcggcga tgcttgcaat gcg 383

<210> 35622
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F4

<400> 35622

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 ccggagtccc gcgatggcga agctgtacgt gcaggcgctt ccgccgcggg atctgaacaa 360
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<210> 35623
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D9

<400> 35623

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<210> 35624
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E1

<400> 35624

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agtaaaaaaaaa aaaaaaaaaa 180
aaagaagaaa aataaagaaa gaaaaaaaaat aaaatacaca gtgcatgcaa aaacaaa 237

<210> 35625

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E10

<400> 35625

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gcttgactca tcacttcttg atgagctgct agcaaacatt tctactcttt catcagttta 180
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ggcatcacct tcacttagtg ctggtacttc ttctaagtga cccgtgaagc agctggcggt 360
tgcatcccca cctgcaatgc cagacctttt aggtgatttg atgggtatag ataatgctat 420
tgttcctggt gatgaac 437

<210> 35626

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E11

<400> 35626

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tgcgtagagg ccttcaggca ttgtcgtccc gtgttgctta ttgatggtac ttttctgctt 120
gggaagtata agggcacatt gttggttgcc atatcatgtg acgcggacaa cacattggtt 180

cctttggcat ttgctttggt ggagagggag aacagagaga gttgggcttg gttcttgcca 240
 cttgttcgga tccatgtcgt gggccctggt cgcgaggttg gtgtcatatc tgacagacat 300
 cagggtatcc ttaatgcagt gcaagagcag attcctggct acgcacccat gcaccacaga 360
 tggtgcactc gacatctagc agaaaatctt cttcgaaagg atcgtagcaa ggctaatttc 420
 cccctttttg 430

<210> 35627
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-001-Q1-K1-E12

<400> 35627
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 tcgttttctg ctagctttct tctactctac cactgtaagt tttcagctcg atcgggccaa 180
 aatttggtgt gtattgggta cgctgtcctt catcagcctt cactttgcat gggttgacct 240
 tagagaagac gtgttcaaga ttttgttgc gcaaaagcat gggaatagca tacatagctn 300
 tgagaggagt ctccagtgac tttgggtgtg taacatccaa agacactcct ggtatacata 360
 tatgagtcct ggtttttact atacaactgt tctgaaat 398

<210> 35628
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E3

<400> 35628
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 ggagggcatt cgtcgatgga ccacctggc gccaaaggacg atggagacgg ggaagaaagc 180
 cagtacttct cggacgcgga ggaccggtcg tggccgtcgc actcgcgcca cgactccacc 240
 gtctacgagg actacgtctc gctgtgcgtg tccgcccgcg cgagctccgt cgacgccgac 300

gccgatgccg acggcgagggc cgtcagacaa cactgcagga agtcgtcgtg cgtgtcagag 360
ggctcgtctgg acgacgttga cctggaggcc ggactgagcg ag 402

<210> 35629
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E4

<400> 35629

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agcacaccct caccgcctct cattgcccc ctctcacaca cgcacacaca ctctctctct 120
ccccattgtg tcaactgtaac tagcaattga gctcttaaaa ttttggttga ggtgcagtag 180
caaggcacac tactacgata tacaacaag atgatcagtt gatgcccggt gtcttcagga 240
tcttttcagg ttgcgcaggt cccattttgc ttctcccccc gggcttgcag ttgcgtttga 300
gtgcacctct gaggcttttg ttggccctcg cgctgcgtac ttaagctctc cgccccgtcc 360
acggcgttgc atctctcatg gcactcgggt tctcctgata gctgctgg 408

<210> 35630
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E5

<400> 35630

tcgcccactc gtccgccac gcgttcgcat gatttggtc cttattttct gttgttggtta 60
cagcccaatt ctttgaggga ataaagtctc tgggtgtattg agaggtgtct ttctgaaata 120
gggagcatat cagatgcaca cgtgtctttc gtgt 154

<210> 35631
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E6

<400> 35631

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aggatgccct caaggaggga atgggaggtg gtggagggat gcacgatccc ttgacatat 120
tccagtcatt ctttggtggt ggaagccctt ttggaggtgg tggcagcagt aggggcagaa 180
ggcagcgaag gggagaggat gtggttcata ctctgaaggt ttctctggag gatttgtaca 240
atggcacatc gaagaagctc tctctgtccc gcagtgttct ctgctccaag tgcagtgtta 300
agggtacaaa gtctgaacct atatagaggt gcgctggttg ccaaggttct ggctttaagg 360
tccaaatccg gcatttggcg cctggaatga tccatcatat gc 402

<210> 35632
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E8

<400> 35632

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ccatattcga atccttcagc acctgcagca gaaagcaatc agctgcctag ggatactgat 120
ccatcacctg ggcagccttt gcaacctgga atgtcatcat ctggtgttgg tgttatcggc 180
cgaagaagtg tatctgatct tgggtgaatc ggagataacc ttactggaac ttctgctagt 240
tctggtcatg atcagcttta taacctgcaa atgctagaag ctgcattcca caagcttcca 300
caaccaaagg actctgagcg tgctaaaact tacattccgc ggcaccctgc agttaccct 360
gctagctatc cccaagttca gccatc 386

<210> 35633
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E9

<400> 35633

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cttcgtgccc ctgaaccaat acttatggta tttgggtacc atctgatgtc ataaccaaag 120
agcaacatgt taacagatgc tttgaaaaac tgtaccgtaa ctgtcggatt cttttaagta 180

cattatagta aagacttgag cgttagctca aaatga

216

<210> 35634
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-F10

<400> 35634

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tccgtcgatc catccaccac caccaccccg ctgcggcgat gtgcggcggc gccatcctct 120
cgggtttcat cccgccgtcc ggggtggcgg cggcggcggc ggcggcggcc aagaagaagc 180
agcagcagcg gtgccgtgtg actgcggacc tgctatggcc ggggcccggc agtaaggag 240
ctccccagga caaggaggag gacttcgagg ccgacttccg cgagttcgag cgcggcctcg 300
gcgaggatga cgtggacagc gccggcg 327

<210> 35635
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-F11

<400> 35635

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aacatgtgaa atctgtggtg gagccggtgt gcctcctgga accacacctg aaacatgtct 180
atcttgcagg ggttcaggat ttatattcat gcaaaccggg cccttcaaga tgcaatcaaa 240
cttgacaaaa tgtggtggtt ctgggaaaac tgtgaaggaa ttctgcaagg catgcagagg 300
aaacaaagtt gtgcctggaa ggaaatcagt ccgccttgac atactgcctg gtttggataa 360
tgaggatacc ataaaggtgg ttcgatcagg tggagaagac ccagatggcc gtccagggtga 420
tctttatgtg 430

<210> 35636

<211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-001-Q1-K1-F12

 <400> 35636

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 agacgccggc gacgaggcga agaagaagga ggcggcgctt gcatcaagca ggctcctcga 120
 cccggcggtc aagccctcca aactatccca ggaccggctc gacaagttta aggaattaca 180
 caagaaacgg ttacagataa ctgaaaagcc gaagtataaa agaaaactga aaggaaccgc 240
 tgggagaagt accaaagtaa ccagtgatta caaatcact aatacggatg catctgctga 300
 tagttctcca agagatgtac atcatacgtc atcaattaca ggaatccaaa gggatcctgc 360
 atcaggcctg tcctcgagga acaaaagaaa gctacattgg gggctggata ttaaaggacg 420
 atggngaagg aaggcaaa 438

<210> 35637
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-F2

 <400> 35637

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 agccgccggg gaggaggctg ctgctgctcc tactgctggt gccgaggagc ccgccgcggc 120
 cgagcctgtc gccgaggcag aggtctgtgc tcccaggag ctcgccgcgg acgagccgga 180
 ggctcctgct cctgctcctg ctggtcccca ggagccggcc gacgaggcgg aagctgctgc 240
 tcctgaggag cccgagaagg ccagccagtg atgccgtgcg cacgc 285

<210> 35638
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-F3

 <400> 35638

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ctcacggact actgcatgcc agagatgacc ggctacgacc tgctcaaggc catcaaggcg 120
ctgaacccgc tgaagccgat ccctgtcatc gtcattgtcg cagaagacga gccccagagg 180
atcagccgat gcctgaacgc ctgcgccgag gacttcatcg tgaagcccct gcagagcaag 240
gacgtgcagc gcctacggaa ctgcttcaca gtccggaggc ccagcaacaa tggcggcgcc 300
acgttgccgt gcgaggagaa cgccgtggcc aagtggagta acaacaagct ggcgccctcc 360
gccggcgccct gcgcggcgcc cagcgcca 388

<210> 35639

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D8

<400> 35639

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ccctcaagag ggtgggcctg gaggactgct tctaggggat catctgcttc tagaccctgt 120
acccgccgtg ccgctcgcat ggagaccagg atcccgagat ctctgacatc gccggcacac 180
ttcgtccgct ccggcaccgt cgactagctg accaagaccc tccgtcctgt gcaagcctaa 240
cgtggacgcc atggatgagg cgctcatgat cgccaacgtc aaccgcaca atgcgatctt 300
cttcgacgac agcgttacgc aacatccatg ccggtaagca gattggcctt cacacggtgc 360
tggtgggcaa atc 373

<210> 35640

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C12

<400> 35640

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caggaggctc gggccgcgag ggtggccact ctcaaccgcc cgcgccagct caacggcatc 120
tccgacagag tggtgtacct cctcgcacag ttcctggaga aatgggagaa ggatgagaac 180

gccaaattcg tcatctttaa ggggtgctggg cgtgcatttt ctgctggtgg ggacctaaag 240
atgttttatg aagggaaatc aaatgattcc tgcctcgagg ttgtgtatag aatgtattgg 300
ctttgctacc acattcacac gtacaagaaa accatggttg ctcttggtta tgggcttgtc 360
atgggtggtg gcgctgcaat ggttgcgcca ctaaagtttg cagttgtcac agagaaaaca 420
atctttgcta ctctg 436

<210> 35641
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C3

<400> 35641
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cgagtggata aaacagaagc tgtttcagca cctgaagcgg atggcgcagc agtaggggat 120
ccagcaccgc tggcttttga cctgcatctg gttaccggtt cgggcttgga ttcaaagcc 180
cgggatgtgt gtatagaaat aagacctgta tcccgtgtt gatgtagaac atgtggacat 240
ggtgttgctt ctgaagacga ttttggctca acaatgcaga tttcatgtt gtc 293

<210> 35642
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C4

<400> 35642
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atgctcaaat gacttgagtc atgacgtgag acctgaggtc atagattgtg tctgcgatat 120
tggaggcgac atactctatg acgttcgcta tactactgca gattgcatag ttcaatgcaa 180
cttacattac gacttgtctc attaacttgc gc 212

<210> 35643
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C5

<400> 35643

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gctttgttct gccgaggccc aagatggcca acgctgacct gggcaggatt atcaactctg 120
acgagggtgca gtctgtggtt aagccactca acaaggaggt gaagcgcatg gagaagagga 180
agaacccgct cacgaacatg gctgctgtgc tcaagctcaa cccctacctc ggactgccc 240
ggaagatggc cacccttgct gaggctgccc gagtcaaggc ccggaaggag aagcttgatt 300
ccaagaggac caagcttacc tcggagactg ccaaggtcaa ggctgccggc aaggcgtggt 360
acaagaccat ggtctcggac agtgactaca ccgagtttga g 401

<210> 35644

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C6

<400> 35644

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aatggccgct cgctcctcct cctcccagcc gcagctggtc ggggaggcgg cggtcctggc 120
agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg 180
cgagggtgacg tcgtcgggtg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc 240
ctccgggggg tgctgcaacg ggg 263

<210> 35645

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C7

<400> 35645

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ttctatcgga gggctttcta tggctactcc tactacacac cattcttgcc aggattataa 120
ctgtca 126

<210> 35646
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-C8

 <400> 35646

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 gctgcgggagc atccaggcac agccccgacg gcgacctcat cgactgcgtg cgggcgcacc 120
 tgcagccggc cttcgaccac cggaggctgc gaggccagag gccactggcg ggccccgcgc 180
 cggcgaggcc caaggggaac cgctccgcg acccgataag gaatgacacc gcggaggccg 240
 tcggcgcca gcagctgtgg gggcgctccg gggagtcgtg cccggaagg tccgtgccca 300
 tcaggcgtgt cacggaatcg gacgttgctc cggccagctt cgt 343

<210> 35647
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-C9

 <400> 35647

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 gtcggtcggg ggctctcgga tctcgccgct gcctccccgt ttcttcggtg ggatctcgct 180
 cgcttcgcgc catggccgcc gtcgcgacgc caccggcccc cgcgccgcc gcgccggcac 240
 cggcaccggc accggtgct gctccggctc ccgtcacgt cggccctgcc gcggacaaaa 300
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<210> 35648
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-D1

 <400> 35648

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 tggaaattca agcccaacgg ttcatgtcga gctaacaat tccgatgaga aactggccaa 180
 tcttgcagaa gacaagaatc ggcgactttc agatgcaagc cagttaagaa caggttcaaa 240
 cccaatgggt gatgttgagc taacaaatct cgatgagaaa ctggccaatc ttgcagaagg 300
 caagaatcag cgactttcag atgcaagcca gttaagaaca ggttcaaacc caatgggtga 360
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<210> 35649
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-001-Q1-K1-D10

 <400> 35649

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 gacgcgagag gtagctgctg ctgtgcccgg cgcgcgcgtg cgtgcgacga tgtcgtcggc 180
 ggtggaggcc gtctcctgcc ccaaggtcga cgtccccgcc ggccccggagc cgggggagcc 240
 ggccaaggaa gcggcgccgn ccgaggagca ctgcgacacg gcgccccacg gcaagtgcgc 300
 gccgcgttgc cacgngagg aggaggacga cgacgacgag gaggaggagg aggaggagaa 360
 ggcccccaag gccatcgacc tcggcccat ggtcagcatc aaggagcagc tcgagaagga 420
 caaggacgac gagagcct 438

<210> 35650
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-D11

 <400> 35650

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 tttggtcatt gggcacttaa gtttgcacct catttggttc tgtaatatgt gggcttgtgc 180
 atgtgcttgg cgtattgcat gcagtgaata atttatcttc gcgttggggtt ggtgacaatg 240
 ttgggaacgg atttgaattg gggtttatgc ttgccatctc ctc 283

<210> 35651
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D2

<400> 35651

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 tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180
 agacgcatca aagttttcag ctctgctgt ggtggaaaca taattgggtt aaacgatcac 240
 tgccttcaaa aacttgtgaa ttaagaacat gtgatttcac cctcagtcac gaaaagaggg 300
 agcgtatgag gaggagagct gctgtgagat cagctattgt ccagcatctc cttgtcacca 360
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<210> 35652
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D3

<400> 35652

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 tacagtcacc gattcactgc taccctcact agttttaaat ttatcatcac cagaagtaga 180
 agacgcatca aagttttcag ctctgctgt ggtggaaaat aattgggtta aacgatcact 240
 gccttcaaaa acttggaaat taagaactgt tgattccacc cttagtcatg aagagagggga 300
 gcgtaggagg aggagagctg ctgggagatc agcttttgtc caacatatcc ttgtcaccac 360

cattttttgaa gactagcaga tcaagcacag ttcattgcaaa ggaa

404

<210> 35653
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D4

<400> 35653

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ctagccacgc tcgtgttacg tcttcaatcc tgattagctt caaaccccca tggccatggg 120
gctccccggc ctccgtgcc accgcctcct cgctcggggg tcactccctc cactcgggtc 180
cgccctctat cgcaggcccc tggagcgaac ctcggtcttc cgctactcct cctccaagc 240
tcaagctggg gacagtattg gggaggaggc cctgcgcatt ttccttgagg agaggcaact 300
gcacggcgat ttcgtcacca aggtctctga catgggtctg aggaggaatg gcgccaatgt 360
tggtgcggct g 371

<210> 35654
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D6

<400> 35654

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ggcgggtgagg tgtattgaac tgtccttgat tattgaggcc tagtgtacgt tgtgcagttg 180
tttgtccagc ctatgggtggg ttgtctacat ctccatgaaa tgagatggag agctgatgga 240
taaaggataa tggttggttg acatatgggc ataattacat aagtttgatt aggtcacag 300
agtcacagtg atttgaacta ccgtgacttg attgacatat cttcgggtat gtgattccca 360
aagtagccat tgggt 375

<210> 35655
<211> 430
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C11

<400> 35655

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agagtcaaca gtcagctgcc aggagatctc caagatgccc agccttgctg tcaccatcgc 180

aaacaagacc ttcaccctaa caccgagca gtacattgtg aagctggagc aaggaggcca 240

aaccgtctgc atcagtgggt tcatggcgta tgacctgcca acggcgctg gtcctctctg 300

gattcttggg gacgtcttca tgggagctta ccacacgggt ttcgacttcg gcaacgacag 360

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accctatgta 430

<210> 35656

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-D7

<400> 35656

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acccgccgtg cccgccgcag ggagaccagg agcccgagat cttegacatc gccggccact 180

tcgcccgtc cggcaccgcc gacgagctgc ccaagacccc cgtcctgtgc aagcctaacg 240

tggacgcat ggaggaggcg ctgaggatcg ccaacgtcaa cccgcacaag gcgatcttct 300

tcgacgacag cgtacgcaac atccaggccg ggaagcagat tggcctccac acggtgctgg 360

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<210> 35657

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A6

<400> 35657

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aatggatcct ggaactgaga acaacccta cttgggtttc ctctacacat cattccaaga 180

aagggcaaca tttgtgtcgc atgggaatac tgcaaggcat gccaggagt atggtgatct 240

caagctggcc cagatatgtg gcacgatagc agccgatgag aagcgccacg aaacagccta 300

caccaagata gtcgagaagc tcttcgagat ggaccctgat tacacagtgc ttgcgtttgc 360

tgacatgatg aggaagaaga tcacgatgcc agcccatc 398

<210> 35658

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A7

<400> 35658

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ggcgccggtg caaccgttgg cgttggcaaa ggtggcgtct gcgtcggcgt caatcccggg 240

tacggcaagc cgggtggcac cacggtgggc gttggcaagg gcgggggttg cgtccacgtg 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A8

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 atagtttaca gttggatttg gctgaggagt ttttggaag aatttcagag ataaaaccaa 240
 agcatatagg ttcccttaaat gctttgcttt ctggatgtgc gattatgaat gaaccagaaa 300
 gagctgtccg catactagct aaaatgaaac atgtgaacat gaagccaact ctcaggacat 360
 atgaactttt gttttctctg tttggaaatg taaatg 396

<210> 35660
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A9

<400> 35660

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 gtgcttgcg cgcgggtggc caactccgag ggcgactccc tctgcgagct gcgcgggagc 180
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 gaacttgtct ggcatctgg tgctgagct tgtgaaactg gatcatcttc agtatctgga 360
 ac 362

<210> 35661
 <211> 88
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B1

<400> 35661

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<210> 35662
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B10

<400> 35662

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taattcacct aatattccta gaccaagaac gactcgggtt aatggtcagg gatgccaaat 180
tgtttcagta aaactaatga agctcgatg atgattatgt acctacttga gaacaaattg 240
tctaaaacat atctgctact acacttcaat agaacaattg gtcacacaca agaagttcaa 300
atcagaaaaat gccagcttgc ggtaactccg gtaggttctt cgatggtttc cggttaagggc 360
tgaccatgga gaagagcaca gtgggtgtca gtgtccctgt tgttgtcatg gccgagactg 420
ctgagaccga ctacaac 437

<210> 35663

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B11

<400> 35663

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cgacggcgac tcgcggtgt tcgtcgacct ggagcccggt ccggccatca gcaagcggca 240
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cagcttcaaa gagecgcctt gtgtcgccga acaacctcct ctctctggcc ccgtgcagct 360
cgcggcgtcc accggcttct cctgggccaa gaagccccgg cccgacgcca cgacggcggc 420
ggtaactgtg ac 432

<210> 35664

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B2

<400> 35664

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agtgtagagt gtccgtaggt gtctgtctct cttggtggct ggttgcaacg gtcattggcg 120

cgtcgtctcg tcgggtgcc ttgctgctgc tgtgcctggg cgtgctgggt tctgtctct 180

tcgcggcggg cagcttgga caggagctgg acatcacgtg gggcgacggg cggtgcaagg 240

tccttgacaa cggggcgctg ctgacgtgt cgctggaccg caggtccggc tccgggttcc 300

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actccgtcgg caccgtcacc gtctactacc tgctg 395

<210> 35665

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B3

<400> 35665

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gtgctggtgt cctgtctctt cgcggcgggc agcttggaac aggagctgga catcacgtgg 240

ggcgacgggc ggggcaaggc ccttgacaac gggcggtgc tgacgtgtc gctggaccgc 300

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ctgcggctgg tgccgggcaa c 381

<210> 35666

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B4

<400> 35666

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cccttcactc agtcttagtc tcttattagc tctaggctct agctagccgc gccactcctt 120

cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180
 cgtegtggcg gccgaggaag cgcccgtggt ggagaccccg ccgcccggcg tcgtgcccga 240
 ggagtctgcc cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga 300
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 tgccgaggag cccgtcgcg ccgaacc 387

<210> 35667
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B5

<400> 35667

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 atgaacctga ttttccgttt cctccagagc aaatcgcgca tccagatctg gctcttcgat 180
 cataaggacc tcttgattga gggtcgcac atccgattcg atgagtacat gaacttggtc 240
 ctgaagatg ctgaggaaat caacgtccag aaaaacacta ggaagacact gggccggata 300
 cttcttaaag gtgacaacat aactctgatg atgaacagtg gcaagtggaa attcttatgg 360
 caagaacgat gtttggagct cgcggtgaat atttctg 397

<210> 35668
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B7

<400> 35668

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 gttagcccag agatatcaga tgtgatccat tcccagagca ataagcttgg ttcatttgct 180
 catggattca cgtactccgg ccatccagtt gcctgtgctg tggccattga agctctgaaa 240
 ctttatcgcg aaagggacat tcccggccat gtcaagcaaa tcgccccaaa gttccaggac 300

gggattaggg cgctggcaga cagtccgatt ataggggaga tacgtggcctt ggggatgatt 360
atgggtaccg aattcacaaa caacaagtca ccg 393

<210> 35669
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B9

<400> 35669

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cctggggccac cgacgaccac tccctcaaca acgccttcag cacctacggc gaggtcctcg 120
agtcgaagat catcctggat cgggagacgc agaggtcccg cggttcgggc ttcgtcacct 180
tctccacgga ggacgcgatg cgcagcgcca tcgagggcat gaacggcaag gagctcgacg 240
gccgcaacat caccgttaac gagggccagt cccgcggcgg ccgtggaagc ggcggtggcg 300
gatacggtag cgggcgccgt gatggaggcg gctacggcgg tggcggtgga agctacggcg 360
gtggtcgtgg aggcta 376

<210> 35670
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-C1

<400> 35670

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tttttttttt aaaaaaacg gggttaaaaa aattttttta aaaaaaacct tttaatgggg 180
gggcattttt ttcccacaaa accaaaaaaa gggggaaaat aaaaaaaa aatttcaggg 240
ggacggtttt atttcccatc cgtgatttcc acccgtcaaa aaacctgatg ggggaatgtt 300
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tcgataaaa aatttttt 378

<210> 35671

<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A4

<400> 35671

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ttcggcaacc tcattcaggc ggtgttcacg ggcgtgccg cggggatgct cctgggcggg 240
ccccccgagc tgtccgcggg cctgctgcag aaggccatcg acgagcacga cgccgtcgcg 300
gtcaccagga ggctggagga gtacgaggcg gcgccaagc tgttccacta cagcgacgcc 360
ggccccaact gcgtggcgt cggcagc 387

<210> 35672
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-C10

<400> 35672

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ccgagcttta agctcgtgct acctgcctac ctatccgtag ggagagagag agagagggga 180
gaagggttcgg tcggtcggtc gggggctctc ggatctcgcc gctgcctccc cgtttcttcg 240
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ggcgggcccc gaaccggcac cggcaccggc tgctgctccg gctcccgta ccgtcgcccc 360
tgccgcggac caaaccacgg atctgctgca gaagttgtcg ctggattcgc agcccaaggc 420
ggcnggtgcg acag 434

<210> 35673
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A1

<400> 35673

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<210> 35674

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A10

<400> 35674

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aagaaggacg aggagcagcc cgccggcgag tacgggtact ccgagaccga ggtggtcacc 180

gccaccggcg agggcgagta cgagaggtag aagaaggagg agaaggagca caagcacaag 240

cagcacctcg gcgaggccgg cgccatcgcc ggccgggcct ttgcgactct acgagaagca 300

cgaagcgaag aaggaccccc agcacgcgca caggcacaag atcacggaag aggtcgctgc 360

cgcggcggcc gtccgcgccc gcggctacgt attccacgag caccacgaga agaag 415

<210> 35675

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A11

<400> 35675

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gctgagggac ccaggagttg tggggcgta cagataatcg gcatggaatt tagtagttta 300

taacagtgcc tgaaggagct aggatattatg aatcattctc caccaccttg aggtactcac 360

cgagagccaga atttatgaat cgttgtccac catctcgaga tatgatattg acatgaccaa 420
atgcatttac tgtgggttct ac 442

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<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-001-Q1-K1-A12

<400> 35676

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ggtagctggc ttttttattg ttgaggaccg tgtctttcga actgcagatg gacttctatc 180
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cctttttggt gcaaccctgg agaagtatgg gtaccgatcc atgtcgtctg ctgaaatcct 360
tgataaaact agggacaagt atcttgaact tcttctttct gactgccgga agcagctcaa 420
cgag 424

<210> 35677
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-A2

<400> 35677

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ttagctttca tctcatttag tttaggtcc gctaatagct gcttactttt tatcttaccg 180
tcttgttctg tttgtgagag actttgaagg ccaatttcta aggaaatcaa gagtaattta 240
gatttaaaga tgtttacgaa gctgttacac attgaattag tatgtgatct acaaccaaac 300
tctgtcccat atgagcgggc atagattttc tgagatgact 340

<210> 35678
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-057-Q1-K1-E1

 <400> 35678

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 aacaaaacga gatgaaacac aggacaactt ttcattttcca gtacactatt aaaatcgggc 180
 ccctagcatc gatgccttta cttcttgcct tcgataggga gtattttcaa tccagccatc 240
 cattcaagta atgcaagcca tttctgagat aaatagccat tggtttctct ccttgtctcc 300
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 aactggtcac aatatggggtt aagattttg 449

<210> 35679
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-E12

 <400> 35679

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 ccgacctga ggagttccac attcgcaccc tcacccccgt cctcggcagc gaacagaagg 180
 ccagggacgc agtgcctctac cactacaaga acgccgccag cggcttctcc gcgaagctca 240
 cccccagca ggtcaaggat ctcaaggagc aaccagggtgt tctccagggt gtgccgagcc 300
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<210> 35680
 <211> 227
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E3

<400> 35680

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tccttctctat tctccctatt aaacaagcac caacttttcc aactctacat taacaaccca 180
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<210> 35681
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-E4

<400> 35681

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caacgttgag aacgcanaat gtctttttga gggatgatacc catctagagg catcaaagaa 180
gaaaatcgtc tgctatatca acacatncct caatgcagnt gaaatcactt aagagaattg 240
cggaccacca aatagagatg gaaaggtacc tcaaagcttg gttgatagaa gtttnttccc 300
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<210> 35682
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-E5

<400> 35682

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gtaaatctca tccgtcttcc acttctcctg gagcaaagtt ttagatgggt atcggaagat 180
aaaagttaca gcaacgcac cagggtttt gttagagagt ttagctacat aaaacgtgta 240

caattgtttg tttttaactt ctgttatttg cagtgtacac tagtaaaaga actgaactcc 300
gatgatagtt tttttccaag ttagttgtgt cccaattggg tcgtgtagtg tttgatactc 360
tataaaacta aac 373

<210> 35683
<211> 336
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 35683

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tggtgttggg ggcactggtg ccaccggtgg actgggagga ttgggttcac cagaattgag 180
tagtttgctt ggtggtcttg ctggcagtc aagaactggt tctgctggtg gtttaggag 240
ttcgggttca ccagatttgg ggagtatgct tgggtggttca cctgatgttt ctccgttcag 300
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<210> 35684
<211> 351
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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aaccatggt cgggtggcct cccgcccctt tggnggtctc ctctctatt cggccggttg 180
ggacaaagca ccacgtgttt ccaagctcta tcatgagcgt accatctgg caatctacgt 240
gcgggtggga aggccgcgc tgttggggcc aacagccagg ccgcgcagtc catgctcaag 300
caggactaca aggacgcctt gaccgcgag gaggccgtcg gtctcgcgt c 351

<210> 35685
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-057-Q1-K1-F11

 <400> 35685

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 aagggtcaagg cctcctcctc tctctcgcca acggcagcga cagcggcagg tctggaatgt 180
 tgccgatgtc gaacccttca gctaattcca cacagcttac aattttctat ggtggatc 238

<210> 35686
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-057-Q1-K1-F2

 <400> 35686

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 ttgtagctca aagctttctg aggaatctgg aggatgctgg tgtgacatgc ttcttctat 120
 tgttaaagaa gcttggagga actgcaagaa agcaattgag gcattcttcgc caccaaaagg 180
 atccaaatct attattgtac ccatggattt gtgttcattt gaaggtgatt cttctgttg 239

<210> 35687
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-F6

 <400> 35687

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 gctaataatta tcaagccaaa caaattcgga ccttttcttg aatctttggg ggctgtatac 180
 attgctcagg tggttgaagg tcttgtttat ctgcatgaac aaggtgtcat tcatagagat 240

atcaagggcg caaatatact gactacaaa gagggccttg tcaaacttgc tgactttggg 300
 agtgccacta aattgactga agctgacatc aacactcatt ctgtggtcgg cactccatac 360
 tggatggcgc ctgaggtcat cgaaatgten tgtgttt 397

<210> 35688
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-F8

<400> 35688

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 caagtgcacg cacatgtgtg ttctgccacc acctgcttga tgaagttatg tccaaactga 120
 aagatccgga cgcgaggatt gagatagttc agattcttat caaggagtgc aataagattg 180
 aaggccacgt ccagcagtgc aagcgactgg tcctgcaata cattcccctc atcctggtga 240
 acggcgagaa gttcctcgag aagaatgatg tttgcgcgct cgtacaggct tgtccagcca 300
 ccataagaa gactttcagc tc 322

<210> 35689
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G12

<400> 35689

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 aactccaaac aaaacttaaa gaaaccaaag cacaattcac atataaatac attctcccc 120
 cactttcaaa ctaccagact taattatact taccttcaac gggttctttt ttttatctca 180
 tgaccataaa taattt 196

<210> 35690
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-057-Q1-K1-G3

<400> 35690

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cggcggggcgc cctctgcgcg cgtggggacgc tgctnaacag gagtgcggac gatcctcggc 120

gcagggagag cttgatagat agccacggct tgtgggcgtg cgtcgccggc ttggacgtga 180

gggcgcgctg tggcggctca gaagatagca tggcgggcgc cggctggtac tcgatgtgcg 240

ggtagaccgg ggtcggctga tcgcgcgcgc ggaggagcga gcggtcaatg aagggcatga 300

cggcgatcgg tacgccgcgg cagatgtccg cccacgagtt gatg 344

<210> 35691

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-G4

<400> 35691

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ggattatgca cgctctgaat ccttaaaatt atatgcaaag gtatttaatc aaggcaattt 120

tttcatctat atttcccaac cggatgtaca ccacttgcac ggtaccaagt actatatata 180

taaaacaaaa tgttattttt tgttaagccc tcaaattatt catgcgagct cgcttataat 240

atcaaat 247

<210> 35692

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-057-Q1-K1-G6

<400> 35692

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tcaaatacag tgtgaatata ttcanagagg aattccgggc tgtttggcgg aattatagtg 120

agctttaagg gtttcctttg tttctctcat gttcatgggt aatgaagggt tctggtgccg 180

ttgtttgtga gctgtgctag gagatctagt tgaagggtgaa acgccattgc acattacatg 240

gactacttgc tctcttggga ggtgggattc tggttgggtt gactccgaat gcgatgctat 300
gccagcacac gatccttcaa gaacaatagt tttctttcgt acttctccct aaccgagcat 360
tagagagagg acagcatgta aaggatgtaa aaatgt 396

<210> 35693
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-G8

<400> 35693
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taggganaag atatcgtggc gatagcgta taagaatgta tacannaatc ttttgtgagc 120
cgatataccc catttgcttc gattgaagat nccttttgac ccaggatgaa ctgggttcac 180
ttatgctaaa gatgacttga aagaaattgg agagcaaagt gccagattgg tttggtgatg 240
aaaccttctc gt 252

<210> 35694
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H12

<400> 35694
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ctggatgcgc gacaaagctg ccgacaacat cgccgccaat ctctactccg tcaagttcct 180
tgatgacaag aaaagcttcg tgctgggcaa cgacggcgtg ttgcttcggt atcttggtcg 240
acattctatg tatatgtgtg tacagcgaac ggcatgtgct gctgctacta ctactgtaaa 300
aggctgctta ctgtgcttgc gttctctctt ctgcaacca aattgagtgt aaagatgcat 360
gtgc 364

<210> 35695

<211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-057-Q1-K1-H2

 <400> 35695

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 tgggagcctc ggaggaggga gagggcgaaa agtaagggga accaaatctt gaagggtaaa 120
 cggagagttc tttcgtggaa gaagaagggg gggacagcaa gaggagggtg gaagtagctc 180
 aatagatcta ctgctgtcgg gggagttaat gcaaagctga gttgctgcac gttggctttc 240
 ttcagagatg gcttcagctg gtgtagcccc atctgggtac aaaaacagca gc 292

<210> 35696
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-057-Q1-K1-H4

 <400> 35696

 ctgcaacaac ctgccggtcc ccttcctcct ctctggcag ggaattcagg agcggaggag 60
 ctcatggcag gacggcgtgt accgcaccaa ctgccgatc cctccgggag gcaatttcac 120
 ttacaacatg cagttcaagg accagatcgg gagctactac tacttccctt cccttctgtt 180
 tcacaaggca gctggcggtt acggtgccat cagggttctc agccggccga ggatccctgt 240
 cccgtttgac ccgcctgccg gggatttcac catattggcg ggtgactggt tcaagctcaa 300
 ccacaccgac ctgaaaggca ttctggacag tggcaatgac ctgccgtttc ctgacggcct 360
 tcttatcaat ggccaagggtt ggaatggcaa c 391

<210> 35697
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-D9

 <400> 35697

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tgtccactg agtgtgaagg anttncanca nctacagaaa cagctcgaat gtgctttgtc 120
acaggcaaga cagagaaaga cacaacttat gatggagcaa gtggaagagc tccgcagaaa 180
ggagcgacac ttggggagaaa tgaacaggca actcaaacac aagcttgaag ctgaagggtt 240
tagcaactac agaaccctgc agcatgcagc ctgtccagct cccggcacca ccatggttga 300
gcatgacggc gccacctatc atgtgcatcc aactgctcaa tcggttgcaa t 351

<210> 35698
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H8

<400> 35698
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gagcttcagg gtcggattac gaaagctgat gctgtattga gggacaagga agaagaaaat 120
gtgatgctga aacagcaatt ggaacagtat gagagtcaat ggtcagaata tgaggccaaa 180
atgaaatcta tggaagaggc atggaagaga cagctctctt cactgcagct gaggccttgtt 240
gctgctaaga agagcctagc tgctgccgat gtggctacta gaactgctca gactgattgt 300
actccaacac atgcccagta cgactctgaa gacacgttgt ccaactgggac ccatacaccc 360
gaagtgcag aatcgaggca ccgtaaccac aaccacaacc ctgaaactaa aagtttaaca 420
tgaaactcgg ataggcgag 439

<210> 35699
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H9

<400> 35699
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gcgtattatt acgatgatga ggaggaaact caacagcgca tccacacgat ggagagcgaa 120
tatccaccgc gtcacgccag tgctctgagc ctactagtgc gctctggcag gaccagctgt 180
cggcatctaa acttacagcc ttctctcgca cagcaactcc gaagatgttc ctaccaaate 240

agatctgggtt tactgcacag cagcatcaga cgccccacccc ata 283

<210> 35700
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A12

<400> 35700

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ttgagtccca cctgttgcc tcttctactg ctggggaatc aaaggtcttc tacctcaaga 120
tgaagggtga ctatcacagg tatcttgccg aatttaagac tgggtgctgag aggaaggaat 180
ctgctgagag cacaatggtg gcctataagg ctgctcatga cattgctctg gctgagctgg 240
cacctaccca tccgataagg ctgggacttg ctcttaattt ttcagtgttc tattatgaga 300
ttctgaactc cccagacaaa gcttgcaacc tggcaaagca ggcgtttgat gaagctatct 360
ctgagttaga cagccttggt gaggagtcac acaaagatag cactctgac a 411

<210> 35701
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-A4

<400> 35701

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tgctgatgc catggagtga tccgtgnang tgctggtgt cctccctgcc agtgcctgaa 120
gcaaaccatc ctccatcaga tttctctatc ctcccttctt tatacttaca atctctctgt 180
ttgaatgtga aacatagtgg tagagtagct aaactattta tgacctgaga ctgacgtgtt 240
catgttggtta gggagaagaa agatcnccat ggccactgac tcgggtgcat ggngccttga 300
ccaggatgct taagctcgtc ttggcattag ttgaaggtaa cctcgtgtgt taacaaaaag 360
acaaacaact ttgttgaaag acttgaagtt cttttaactt gttgct 406

<210> 35702

<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-A5

<400> 35702

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anattgctca agcccggaag ggccgtggtc ctccntccag gccgggttcgc cggccggaag 120
gccgtgatcg tgcgcggttt cgaggagggc acccgtgatc gtccctacgg gcactgcctc 180
gtcgcggggc tcgccaagta cccaagaag gtgatccgca aggactccgc caagaagacg 240
gccaagaagt cccgcgtcaa gtgcttcac aagctcgtca acttcacgca cctcatgccc 300
acccgctaca ccctcgacg 319

<210> 35703
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-A6

<400> 35703

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cgcgctcatg cacaccgtg tggatcttgt taacgagact aagcttgaca gcgagattaa 120
gtcttggtt gcttttgctg ccagaagggt tgttgagggt gatgctcttg ctaaagcatt 180
ggctgggtcaa aaggatgagg cttacttcgc agcaaatgct gctgctcagg cctcgaggaa 240
atcctcacc cgtgtgacca atgaaaaagt ccagaaggct gctgctgctc tcaagggtc 300
tgaccaccgc cgtgggacca acgttagtgc tagattggat g 341

<210> 35704
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B11

<400> 35704

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cggcggggct gtcggcgccg ggcgcatca tttcgtgtgg agcatcatca cccggcccat 120
 gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgccct tctacaccta 180
 cgacgccttc atcgaggccg ccagcaagtt ccccggttc ggcaccaccg gcgacgagca 240
 gacgcgcagg cgggagctcg cgccttctt cggccagacg tcccacgaaa ccaccggtgg 300
 atgggcgact gctccggatg gaccgttttg cctgggatac tgccgggtga aggaacagaa 360
 acagacggac ccaccctact atggacg 387

<210> 35705
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-B12

<400> 35705
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 ttcagcagga cccgcccgcg ggcacatcg gcgcgcgta cgacaacaat atcatgctct 120
 ggaacgccgt catattcggg ccgatgaca cgccgtggga tggaggcacg ttcaagctga 180
 ctctgcaatt tacagaagat taccccaaca aacctccaac tgttcggttt gtttcgagga 240
 tgtttcatcc aaacatctat gcggatggaa gcatctgttt ggaca 285

<210> 35706
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-B4

<400> 35706
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 accaaaatta aatcttggct tgcttttgct gccacaacg ctgttgaagt ccatgctctt 120
 gctaattgat tggctgctca aaaagatcaa gcttacttca caccaaatgc ttctgctcat 180
 gcctcgagca aatcttcacc ccgtgtgacc aatgtaaaaa tccataacgc tactgatcct 240
 atcaaagacc tctaccacct c 261

<210> 35707
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-B8

<400> 35707

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ggcaaccagg tcggggggcg cggncttcaa ggggtggaacc ctttcgacgt gatccgcagc 120
ttcccgtcga cggccgagtc gctaattgtc cagatcgacg cggtcacgt ctccaccgag 180
tacgcccgcg cctgcgccct cctcgacccc tccaagtct cagcctcgtc gccgcccgag 240
atcgatcccg taggccaggg ggaccgggga 270

<210> 35708
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-C10

<400> 35708

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aaaaaattag aggtgtgtgt gantgatgta agtcttgatt ttgttcattg ggttgtggtg 120
atcattttgt aatggtagtg gccaatggaa ttggagagtg ggttaagttt tcacatatga 180
tactatatat aaggcatcat atggagttaa gaggtgcagc agtgtttggt gtttacacat 240
gccttcaa at gttagactat ataagatttt accctgtacg taacct 286

<210> 35709
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C12

<400> 35709

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ctactattgc ttacaagtgt gcaaaagttg gtgcagtcgg gataaattgc acacctccaa 120
gatttattca tggactgata ctctccattc gaaaggtcac agacaagcct attctgatat 180
atcccaacag tggtgaaaga tatgatggtg aaaaaaagga gtgggtggaa tccactggtg 240
tgtcaaatgg tgattttgtt tcgtacgtaa atgaatggtg caaagatggg gctgcgctta 300

<210> 35710
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-C6

<400> 35710

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gcagttgtgt ttattgttga cacaagtgga agcatgcaag gaaagcctct tgagaatgtc 180
aagcatgcag tttctactgc tctttcagag cttgtgcaag gggattattt caacattata 240
acatttaatg atgagcttca ctcttctct tctgttttag agcaagtaaa tgacaaagca 300
atagcaagcg caactgagtg gatgaatgca aaacttggtg ctg 343

<210> 35711
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D11

<400> 35711

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gggcgagaag agatggccga cggcaacanc aactcatcgg cgtcgggtggc catgggacaa 120
gaggtgcagg ctttcgttga gaacaagtat ggtggaatgg tgcctaagaa gcctctgatt 180
tcaaaggatc aagagcgcgc ctattttgat tctgcagact gggtccttgg caagcaagct 240
gcaaacagcg gcaccgcacg ggctgcgact gctatcgaat tcttgaagcc aaagctaaag 300
aggacgcccc atcaccagct tccccctcgc a 331

<210> 35712
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-D12

 <400> 35712

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 agagccattc tgggtggcaat ggcgaaaagc gaggggtccgg cgatcgggat cgacctctgc 120
 accacctact cgtgcgtcgg cgtgtggcat cacgaccggg tggagattat cgccaacgac 180
 caagggaaacc gcaccacgcc gtcctatgtc ggcttcaccg acaccgagcg gctcatcggc 240
 gacgctgcca agaaccaggt cgccatgaac cccaccaaca ccgtcttcga tgccaagcgg 300
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<210> 35713
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-D4

 <400> 35713

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 aattttggct agaggtggga aatattctga gggcgatgct aaagttatta ttcaccaaatt 120
 tctaagtgtt gcttcatttt gtcattctca aggtgttggt caccgggatc tgaaaccaga 180
 gaattttctt ttcattgtcaa aggatgagaa ttctgccttg aaagtcattg actttggttt 240
 gtctgacttt gttaaaccag atgacagact taatgacatt gttggaagtg catattatgt 300
 tgctcctgaa gttctccatc gatcttatgg cacataggct gatatgtgga gcattggagt 360
 aattgcatat antttgcttt gtggaagccg ccctttctgg gcacgaactg agtcaggaat 420
 tttt 424

<210> 35714
 <211> 353
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D6

<400> 35714

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ttctagctcg ttctattatg catggctgan gagaagcacc accaccacca cctgttccac 120
cacaagaagg acgaggagca tgccgcggcc ggcgggtacg gcgagtcgcg cgagtacacg 180
gaggccacgg tgacggaggt cgtgtccacg ggcgagaacg agtacgacga gtacaagaag 240
gaggagaagc agcacaagca caagcagcac ctcggcgagg ccggcgccat cgccgcggcg 300
gccttcgcac tctacgagaa gcacgaggcg aagaatgacc cggagcacgc gca 353
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<210> 35715
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-D8

<400> 35715

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gtcttggtcc gctgccacga cnnnaacggc cggactgtgt tccggaagga cggcgtcgtg 120
actgaccgca tcggcaggtt ccgctgtcac ctcgcgcacg ggccaagcag cggcggcatc 180
agcagccacc agctccggtc cgtcacgtcc tgctcgggtg cgggtgcacct cccgcaggcg 240
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aacaagca 308
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<210> 35716
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G2

<400> 35716

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gagagagtct gttgcgatgt ctgggcgcgg caagggcggc aagggctctg gcaagggcgg 120
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cgcgaagcgc caccggaagg tgctccgcga caacatccag ggcatcacca agccggctat 180
 ccggaagctg gctaggaagg gtggcgtgaa gcgcatctcg gggctcatct acgaggagac 240
 ccgctgctg ctcaagatct ttctcgagaa cgtcatccgc gacgccgtca cctacaccga 300
 gcacgctcgc cgcaagaccg tgaccgccat ggacgtcgtc tacgcgctca agcgc 355

<210> 35717
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G3

<400> 35717

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 cctggagaat gtgggtttgt caattatcag cccatgaaga atatttggac caccgtgggg 120
 tgttgtcctg agcatggctc cttgttttga aacatacaaaa gcaat 165

<210> 35718
 <211> 327
 <212> DNA
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<223> Clone ID: LIB3069-056-Q1-K1-G4

<400> 35718

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 gctcatgggt ggagctaata acggtaggat atgggcatct ctaacttccg tgtcacttgg 180
 tggacagact ttcaggcgag ttgctgttgg actgattagc tcgaccatct agcagcatca 240
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 taaggctgta actcacatga gcatatt 327

<210> 35719
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G5

<400> 35719

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g c a g g a c a a c t c c a a a c a c t a t c a g g g c c a t a c a c a g a a c t o t t a a c c a a g g c t g c c a c a 120

a g c a t c a g t t a c c t g t a g g c t g t a g c a t a g a t c t g t g c t c c a c t c e t g a t g c t c t c e t c c 180

c a g c a g t a c c t t g a g c t g t a t c c c c g a g a t t c c t t a a c c a g c g c a a c c a a t a t a c t g t t 240

g c g t g t t c t c t g c a a a t g a g a t g t t c t g c a c c t a t g t t t g t a a t g t t g t a t t t c t g g g t 300

t t t t a a g c t a t c c a a c t t g g a g a t a c a c c g g t g a a g a a g c a g c a a c a a t a g g t a g t t c t 360

a c t t c t g a g t g a a g a a a a a c a a c t t g c 387

<210> 35720

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G6

<400> 35720

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g g g c c g c t g c g c c a g g g c c g c g t c e t c e t c g c c t c c c t c c g c g g g c c a c g c g c c g a c 120

g c c g a c a c a g g a t c g c c g c c g g a c c t c c t a c t c t c c c t c c t c g g c c g c c g c a g c g g a g c t 180

c g c g c g g c t c c g g t c c g a g g g g c t c e t c c g c a g c a g c c a g a t c g c a g c g g c g c g g c g c g a 240

g g c c g c t g c c c a c g c g c g g g t c g c c g g c t c c g a g c t g c t c t c g t a c t t g c c g t g g c g c c 300

c g c c g t a c t a c t g t c e t c c t g t c g g g c t t c t c t a a g c c a g c g g c g g c g t g t g t a g c g c 360

g g t g g c t g g a g t c t 374

<210> 35721

<211> 457

<212> DNA

<213> Zea mays

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<400> 35721

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g c g g a g g c t t c g c t t c g g c t c c g c t c g g c t c g a g c a g a a a a a t g c a a c g g g c a g t g c a 120

agccgtcagg tcacacggca atgttcttaa atatgctggt ctacaacaca tcagcgctcc 180
caagccagca atgcttcttg ctgccttttc tcgtttcatg tcagtttcat ctgctcgcct 240
agaggatcgt ggatttgaaa ctgccactgt agcagatgtc ttgaagtcta aagggaagag 300
tgctgatgga tcttggtctt ggtgcaccac agaggatagc gtctatgacg ctgtcaaata 360
tatgactcag cacaacgtgg gagctttggt ggttgtcaaa cctggacaga ataaatcaat 420
cgctggcatt gtcactgaga gagattatct ccggaaa 457

<210> 35722
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H1

<400> 35722
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catacctaa 129

<210> 35723
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H10

<400> 35723
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cggggcttgg tggtcgaggg agacggtggc cgtcgtgacc ggcgcgaacc gcggcatcgg 180
ccacgcgctc gccgcgcgcc tggccgagca cggcctcacc gtggtgctca ccgcgcggga 240
cggcgagcgc ggggaggccg ccgcggcccc gctcctggcg cgcgggctcg ccgtcgtctt 300
ccgcaggctc gacgtctccg acgcgcctc cgtcgcgagg ttcg 344

<210> 35724
<211> 463

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-056-Q1-K1-H11
 <400> 35724

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 gctgggcgtg ttgttccacg gcgcgcagct agcgcctggat ctggcggtgg ccgggatgtc 180
 gctggcggtg gcgcctcgggt tcttcgcctt catcactacc ttgctctgct ccgcggcgctt 240
 cctccaccac tccaagcccg ccgcgtagtc atagcctnca cagcgaccaa cgcgtctcaa 300
 tctctgggga tcgtaatact ggtgctggta taattcctcc acatcaattg cagaggaggt 360
 gctttaatca actgctttat agcacttaca gatgcaaaga gtagtcgatt gcacacatca 420
 ggtgatagct ataggtcttt ggaccacgtg tatggttctt tat 463

<210> 35725
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-056-Q1-K1-H12
 <400> 35725

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 attactctcc acctatcttc actcttcgag caggtagctc tctatctttc ccagccaaa 180
 atgccgatgc cactcactct cataatctta cccctcatca ctaccttgct c 231

<210> 35726
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 35726

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gcaggccagc aggacgaaga agaagccggc cgggaagacc caggcctgac cgctgagct 120
 aggggagagg aggacgacga tggggctgct gtctcagcgg gtggagcggg cggagatgga 180
 gcccggcgac cacatctaca cctggcgcg cggctacacc tactcccacc acgggattta 240
 cgtcggcggc agcaaggtgg tgcacttcac gcggaagagg gaggcgggcg gcgcgggtct 300
 ggactcggcc atcgccgtgt ccagcctnct nctctcgcgg ggctcggacg agtgccccag 360
 cttcccggac tgcggcttcc agctccccga cagcggcgtg gtgctgacct gcgtggactg 420
 ctttctcggc g 431

<210> 35727
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H3

<400> 35727

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 gctgagcagg ccgaaaggta tgaagagatg gttgagtata tggagaagggt ggctaatact 180
 gtagatgtgg aagagctcac tgttgaggag cgtaacctct tgtcggtcgc atacaagaat 240
 gtgattgggg ctcgccgtgc ttcattggcg attgtctctt ctattgaaca gaacgaagag 300
 tcccgtaaga acgaagagca tgtgaacctt atcaaagaat accgtgcgaa gatcagggct 360
 gaactgagca atatctgtga tggca 385

<210> 35728
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H4

<400> 35728

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 tacaatatta tatactttta cagttaaccg tgtaatttct tggaaattat caaattcaat 180

acttgtataa aggcctctaag ataaagcaag ttcttctagt gatggattct atgagtccat 240
 ataagaatgg cccgccagaa tacactttct gctagctttc taatgttcaa ctgaaagatt 300
 gtacatagt 309

<210> 35729
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-056-Q1-K1-H5
 <400> 35729

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 ggtggttggt ctctagctgc tgtcacagag ctgaacttta atatggttgg atttatgggt 180
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 gggaaagccg tcagtggcat gaattactac gcttgctgt caattatgtc cctggtcata 300
 ctgacttcct ttgctatagc tatggaagcc ctcaaagtgt ggctgctggt tggcaaaagc 360
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 ctta 424

<210> 35730
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-056-Q1-K1-G11
 <400> 35730

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 gatccttcct gccctgccgc ccgtgcacgt cgacgcgtta ttcttgccgg ccgggccccca 180
 ccttacgcct ctctctcttc agggggatcg gatacgccac aggctgcacg atggtgctgt 240
 gggtcattgg ctacggctcc ctcatctgga accccggctt cgacttcgac gacaaaattc 300
 tcggcttcat caagggtac aagcgcacct ttaatctcgc ttgcattgac cacagaggca 360

caccggagca tccggcgagg acctgcacgc ttgaaaccga cgactaggcc atatgctggg 420
gaattgcata ttgtgtcaag ggtgggtccag aaaaag 456

<210> 35731
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E3

<400> 35731

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gggagagcgc gcaggatttc aagaccgacc tccgcttnca gtctctcgct gtcgcgcgcgc 120
tgcangaggc cgccgaggcc tacctcgtgg ggctcttcga ggacaccaac ctctgcgcca 180
tccacgcaa gcgcgtcacc atcatgcca aggacatcca gctcgcgcgc cgcctcaggg 240
gcgagagggc ttgatctccc gttgttgcg tccacgttgt tgggccttcc ctctgtgtct 300
ctgctttag aatccttget tctgttcggt tccttctgtt cgcctgatgg tgttcgtagt 360
gttaggagtt gcattttcta atctgcttgt tcttgacccg gtgcctctga agtggccggt 420
ccccctatct taatggaaat ggaatgtgcc tt 452

<210> 35732
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E4

<400> 35732

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ccgcgcttgc cggagctcct gcccccgcc ctgcccgcgc tgcccatata acctgcaaaa 180
accgagcgaa ccacatcctg tcaacgttgg tggcaggcga tccaaggaaa gcgatgacgg 240
cgtacgaccc caaagacgac gtcaaccgcc tcttcgctt 279

<210> 35733

<211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-E5

 <400> 35733

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 caatgaggcc atctacgaca tctgccgccg atcccttgac attgagcgcc caacctacac 120
 caacctcaac aggcttgtgt cccaggtcat ctcatccctt actgccttcc tgagggttca 180
 tgggtgctctg aacgtggatg ttaacgagtt ccagaccaac ctggtaccct acccgaggat 240
 ccacttcatg ctttcttctg acgtccagt catc 274

<210> 35734
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-E6

 <400> 35734

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 gttggagaag caagtgtgt ctgccgcgaa ggcgggtggag gacaagctcg atgaggagat 120
 cgccgcgctc gaccgtctcg atccggacga tatcgaggcg ctccgcgagc gccggatcca 180
 gcagatgcgc cgcgccgccg agcgcgcgc caagtggcgt gcgctggggc acggggagta 240
 caccgaggtc cccgagaagg agttcttctc catcgccaaa gccagcgagc ggctcgtctg 300
 ccacttctac cgcgacaact ggcccttgca ggtcgtggac aagcacctgt cggcttttgg 360
 caaacagcac gtggagacac ggttcgtgaa 390

<210> 35735
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-E7

 <400> 35735

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ggaatcccag cttttgcaat ttctcgacac aaaatttgggt aaatgacaaa catatggccc 120
tgacttattt tactatccaa agtatgctct gcgcctatgt cttcaataga agagaatgcc 180
tgcttgtgtt cgtatttata gcatgatgtc catgcatgcg gaagctgtgg cacttgcttt 240
gaaggtggat ttggaacttg caaaagccta agcttgcaaa gtaaaatact atgaac 296

<210> 35736
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E8

<400> 35736

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ggtatattac ctcttaccat ctctccctc ccaatccatc tctctacttt aactatcacc 120
ttcactcaat tcaactacca ccatcttaca tcttcctaac tcttcaaacc ctgacaatac 180
cctatctact caccttatat cacat 205

<210> 35737
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E9

<400> 35737

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acataccttg tactcacatc atactcaaac tcacgcacat tgcgcatata ttatataaca 180
agttaccgct ggttatggac accgatccac agacacatgg tgtcatggcg gaaccacgg 240
tgttcctgcc gaaaacgcac atatgcatgc caaccgctat gaaaccccat gtgatccata 300
agaaaccaac atatctgcta 320

<210> 35738
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F1

<400> 35738

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gtgctgcacc agcgtctctt cgcttacccg acccgagttg cccaacacga gactcgtcgc 120
tactggaccg caccgacgtt cgacggacgg cccagtgagg gctgctgggc tcttggcctt 180
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gcagctgcct cctcgactgc ggtccaccaa attagttcag tttgatcttc tagctagtaa 300
ccggaactag aactagctta gttttacaga aactataaat tcacaccatg aaccctctga 360
acgcggactg ga 372

<210> 35739

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-F10

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gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cgggtgcttga 180
catgggatgg aagggccgag ctgcagtggg tgaaggaatc ctctactctt acgattacct 240
gngacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttgga 300
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<210> 35740

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F11

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 agactgtttg aacgtggctt ggcatatgtt g 271

<210> 35741
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F4

<400> 35741

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 ctatctgcac ttctacatta atgcaccact gtgaatatga catagagaaa tacatagaca 360
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<210> 35742
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F6

<400> 35742

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 gctcagttgg aaacaacaac atatgtaaaa cagcttatag aggttcatgg agcctgggtg 180
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 gaacatggga aacctgcctt tgacagcttc ttgcagaagg catctgaaaa aacagtgcag 300
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391

<210> 35743

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F7

<400> 35743

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ccccgccgag gccgatgccg atgccgaggc tgctgtcct gctgatcccg aggagcttcc 180

cgcgccgat cagcatgcag ccgccgaggc ggaagccgcg gtcctgctg gtgccgaaga 240

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<210> 35744

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F8

<400> 35744

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gaccaccaga gataggcgct ttgttgcggt ggctcatact cgctcgacga cggcggcagt 180

gtggatctcg gtcggggagt acgcgcggag gcgctctgct gcagtgctgc agattcgctc 240

gtcggctgcg gcggcgggtga tgtggatctc ggccggtgag tacgcgcgga agttctctgc 300

tgcagattcg ctgctcagcc gcgacgtgga gaaggctgac ggcagggctt tgaatcctct 360

gtggtgcgaa atcgtcggc gggacagagt cgctgttcca actagctgga cgagagctgt 420

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<210> 35745

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F9

<400> 35745

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aagccaaaat gagaaccccg gtccgcacgt agcccatggg aatggctttc ctccccctat 120
tgctctccgc cctcatcgtc tcctgcgaca cgcaatcgcc ggactaatcg ccgtcgcgct 180
ggaatgctcc tccggtcacc ggctcagatc cgaggagctc tgtcgcgcca ccgacaactg 240
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<210> 35746

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G1

<400> 35746

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ggtattctcg aatgccatag cccatagtca gccatggctt ggaataacgt agtggctgac 180
cgatatgcca gtaggcacct tatctagtac ttacagaact acaaaaagtt tgtactatac 240
atatatggac aaccttataa gtggctatgt gtgtacctat cctaacgctt atcccagatg 300
gtgtatcagc gtttttctgt g 321

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<210> 35747

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E2

<400> 35747

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ttcttgctgc catagtcgcc tccatcggca atctattgca aggggtgggac aatgccacca 180

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<213> Zea mays

<223> unsure at all n locations
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<400> 35748

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acgggagcgt gtgcttgcaa gttaaagtcgc ccaagttttc taagtcttcc gcggagccat 180
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agaggagatc tgtaattttg ctgaaagct 269

<210> 35749
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C5

<400> 35749

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tttacacata taatacgatg cagccagtg gtaacaatgc tcccaaaaact cagggaatg 300
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caaatgctcc acgcggtggc t 441

<210> 35750
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C6

<400> 35750

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agtcctaaag gagagagcca ggattcgccc atgctcgggtg gccgtgatcc tctggccccg 240
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<210> 35751

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C7

<400> 35751

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tcccaactcc tccatcgcca ctactactac tccgcattcc ttcagaccca tctgaaactg 180
gccatcctat acacagagcc agcatcgggc atcctctgtc gctcctcatg aagctcaacc 240
cactgatcta cttcctctca ctctactata tcgcttgac cccaggagtc gctgccgacg 300
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<210> 35752

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-D10

<400> 35752

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gaagtaccaa aaacaatcat ctctcctgtc aaaacttact cgtcaactca gtatccatga 300
taacagggca tctgtttcct cttattctaa tgacaccact gaagccgaga gccctcgaac 360
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tgctggaagc acaaacagtc aatc 444

<210> 35753
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D11

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cttgttcgtc gcggctttta tccggccgtg gcttctacag tattttgtct ctctatagat 240
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ctggcacccc c 431

<210> 35754
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D12

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gggaag 66

<210> 35755

<211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 aatgatgaa tcttgcatca gatgatagta tctggaagaa gcttgatcc aagtttgaag 240
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 ggcaggccaa taagagacgg cagaagaggc ccaatccaac cttttggaac tatggctggg 360
 gaaacagtcc ttatagccgt ccacttaggc tgccattgat tgggtggggac tcggacagac 420
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<210> 35756
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-D3

 <400> 35756

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 ataccagata cctccacatc tagatttaca tgggtatattg aaaatttctc caaacgaaat 180
 gttagaaagc actactctga caattttact gttggggggg ccaaatggca agtgctcgtc 240
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<210> 35757
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-D4

<400> 35757

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tcctttgttc tcatgaaggt gcttcaggtt gccacttaca tactgtggaa gaatgtaccc 180
catggagctg cgactacttg ctacgtagga ctgagccctc aactcaaggg agtgacagga 240
aagtactttg ctgactgcaa cgtggagaag acgagcaaac tggcgaagag cgaggagttg 300
gcgaagcagc tctgtgactt cagcgaggag ctgatcaagt ctgcgaagtg agagccgaaa 360
gagctggatc agagaaaatg ttgtggtcct gcttggcatc tagtgggtaca agtgatgact 420
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<210> 35758

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D5

<400> 35758

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gttacgcac taccgctgat ttttttagtg tctggcgctg tgccagaaaa gagaatcttg 360
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<210> 35759

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D6

<400> 35759

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 agagagtatt gtactaccaa gttgctctag tctatactct gactagattg gtgaccaatg 240
 ttccacaggc atttcttgct ttctatgtaa taaatgattt agaaatgaat caatcctcca 300
 aagcattggg acctgctatt atctacatct gcagcttgat agtatctgta atattacaag 360
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 ta 422

<210> 35760
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D7

<400> 35760

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 gtttgcggtgt tctgcatcag cttgcggtcta gtacaacttg tgcagaagct atggcagcaa 180
 caagtgcagg aactcctcag gttgtaccac tgcttatgaa agcaattgga tggcaagggtg 240
 gaagtatact ggcattttgag acattaaagc gtgtagttgg tgctggtaat cgggctcgtg 300
 atgctc 306

<210> 35761
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D9

<400> 35761

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 cgtggatgtc accgtatcgt cctctgtgga catctacgtg cctgggtgcc caccaactgg 180
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ccttcactgg tggaccaagt gaagcatgct tctgctgttg ctagcttgct acgtttatatt 300
gcaactctacc tacctgtctt atatgaaata aagacagact gtgctcggat tcacaaatgt 360
gctgtccctg gaaggatgca tgcccacgtt gccacgaaca tataacttgt gtacttggag 420
tcag 424

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<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E1

<400> 35762

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cggcactgga gtgacggtgc aagccgtcga tgcttagaat cgtgggttag atgagctgtt 180
gcgaagattg attaaaccaa ccgtagattt gtcaagggt 219

<210> 35763
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E11

<400> 35763

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tatcactttc caaatTTTga tgacatcaat attagcatgg taggaaaaaa tatatgcagg 180
cacgatgtat aacaaagccc gtgcagcacc aactagatgt cgtacaatca tgttgatgct 240
ctgaccttc caactgatct ccacgcagca catggtctac aaatctgtcc agtccagctg 300
tttcgcg 307

<210> 35764
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C4

<400> 35764

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tcccgcacag agggcgggca tggctggaaa gcataccatg attctcatgc aaccatcaca 180
gaacagatcg acgaggacat ttatggacta cgattcagtt aaccacgcgc tggatggaat 240
atgtgggtcta tacgaaagga aaatcaggaa cataaaccga atggtcagga acttgactca 300
tgatatcggt gacctgtaca acttcatcga tggcctgacc gacataagtg cactgacgta 360
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<210> 35765

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-E12

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ggatgatttcc cctgtataaa tacagggaag gcaaagcgcc caacatattt tccaatcgag 180
ctatgctcgc ttgttccgct tcaaagatac accaaagctt tgtctacgct acaaagggtca 240
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ctgcaacgca gtaactacga ttctgacccc atgttgaggg catgtgggtgt ttcagttgct 360
ccaaaattta ccaaagtgtg aggaaggatc cttcaagccc caaagctgaa agccggcaat 420
ggatgatgata tcttttcacg aaatgga 447

<210> 35766

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A9

<400> 35766

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 gcgaatctgg cagcttgccct caaggtggcg tcgagacagg agaaccgagg gaagatgatc 240
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 agggaggagt gcgtcgccat gaccttctga tcttctggac gctctgtgcg gatctgcagc 360
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<210> 35767

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B1

<400> 35767

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 gttctgaatt catgtccctg atatgcatga cctagttaac ggcattgtca gtctccacgt 360
 aatgggcatg ttcggttccc cgggaatggt cgatctggaa tgaatcctgg ccggagttct 420
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<210> 35768

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B10

<400> 35768

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gttcggttact acgccaggat ggaagaccat ggctgtatgc tgctgagagc agtccatttg 180
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gagaatgtct gttaccagat gcaacatcat gcacagcttt gacaagtgca ctatattcaa 300
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<210> 35769
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B11

<400> 35769

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<210> 35770
<211> 450
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<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B12

<400> 35770

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gcgctcgcgc caagcagcat gaagatcaag gtcgtcgtc cgccggagag gaagtacagt 360
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450

<210> 35771

<211> 408

<212> DNA

<213> Zea mays

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tgcacgtac agatccatct cggggctata gccctttgca agcacgacga tgcataattc 180

ccccttgacg aacatactac accagggccc tgctactaac caacaccaac gcctgatgac 240

tgattcattc atgtattccc ctggctatga cggccacatg gatgtacagt ccctggacaa 300

gttctgaatt tacgtccatg atattcatga cctacttaac gtcattgtca ctctcacgta 360

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<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B3

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aggactgtat acagtactgt ctgtcctgtg gccatctctg agaatgtcta gggcccagtg 180

taccacccaa ttgtccacat actacttgaa tatcgcatca ctcatcgac tcatgtcctt 240

gaacatgatc tagaaaaagc t 261

<210> 35773

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<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3069-056-Q1-K1-B4

<400> 35773

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accagctcta tcacctcaac ctggactgga gcatacatgc ttcgggtcaa gcagtacttc 180
gcagaggctg tagaggagca gaaagatgtc atgaaacggc acggcgacaa gattgatcat 240
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ccgtcgctaa tcatgttgct tcgtcaatca cacagcgact tcaccgtgac aacaaaggaa 360
agcaaagtgt atgacatccc caagggccac atcgtcgga catcaccatn cttcgncaac 420
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<210> 35774

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B5

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gtagatgctg cacctgctag ccttcgcgct ggagccgCG tccatccact tcgatgccag 180
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catcgtgCG ccccggttct acctggtacc gcgtggTggc cgaccgttac agaccatgc 360
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<210> 35775

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B8

<400> 35775

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 tgctgagacg tttccctatt gaatctaagg ggcggcaaaa gaagctgtat gaagttggga 300
 ccgtgacagc aatttgtgtt acctgctttc tgataagatg tgttggtggtc acgctatctg 360
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<210> 35776

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B9

<400> 35776

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<210> 35777

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C1

<400> 35777

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 cacggcccct gaacagactg atgctttgat cgattctggt tgccatcatg acccttctga 180

gctcctggcg aatattgagt cacacatatt aaaagcgaaa gaagagtctc ttagtcggaa 240
 agatataatg gacaggataa atagatggat tgctgcttgc gatgaagagg cttggccttga 300
 aaaatataac caggacccaa agaggtacag tgctggaaag ggtgctcata taaaccttaa 360
 acgggcagaa aaggcacgga ttttgggtag aaaaatccca 400

<210> 35778
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C10

<400> 35778

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 tggttccttc accttcttct gaattgatta gcaaattgggg tgtatatgga aacatatgca 120
 gaattgataa gccttggtg gtagatgaga tccatcttcg aagatttgat ggcattgttg 180
 aacatgaggg ggctcatagg tgtgtttttg ctagtatcac tgtgaaagca ccggttcgag 240
 aggtatggaa tgttctcaca gcata 265

<210> 35779
 <211> 313
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 35779

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 tggcttcgac agagatggcg gagactacaa ttctgggtggg cgtgggtggtg gatgcggtgg 180
 cagaggagga tacaatcaaa gtggtggttag tgaccgtggt tatgatgacc accgtgggtgg 240
 cagagggtggc agctatggag gacgagacca atagaaccaa aagggtagtg aagggtggcta 300
 caatgcttgg ggt 313

<210> 35780
 <211> 197

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 35780

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 atttttaaac accataatcg ctaacatcaa acctatTTTT actaccgcga cattcacagt 180
 actcaccaaa atcctat . 197

<210> 35781
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-C2

 <400> 35781

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 atctttatta cagcacacta aaagcattaa tattactagg ttgatgccct tgctatcaat 180
 atagctgtcg attgatctgt tacatTTTTt aaaatatttc ctattattct ctgattTTTT 240
 atgattTTTT gaacaatttt gtctcatgaa gcgtTTTTtag ccccttggat gccaaacatt 300
 ggcaagtaaa tacaatgcag gttatgacaa ctttaattct ggcatttggt ttaatcatta 360
 tctgatctgc aattaatcta tcacaagcac attc 394

<210> 35782
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-056-Q1-K1-A8

 <400> 35782

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ccccgtgccc gctcgcgcac gcgcaccccg tggacctgcg ctggctgctc tcggtcgccc 180
tcggcggaact cttcgcgctg atgctgggtgc ttctggccac ctccccgtcg ttccgggtcg 240
cctacacctc gcccttcccg cgccttttta ctgggccccg cg 282

<210> 35783
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-C3

<400> 35783

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gtgaggcctt atagggccta gctggaactg taaattccgg cgataggatt gaaagggatg 120
tgaacctgaa acaaattatt gacctgaaa cactggctga cctctgtatt caagcagggc 180
aggcaataac tttccgtcgg ctgttggttg aagccgtcgg agcagtcctt gaagagaaag 240
tgcccttgat atattctctg ctcaaaagat tagccttgca gttgccagac gaggtacctg 300
ataaaaatga gataattaga ttgagaaagg ttgcgagcag tgttggtgtt ggcgacaaac 360
atgatgctga atgggta 377

<210> 35784
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-H12

<400> 35784

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ttgtgcattc actggtgaaa ttagtgctga aatgctggtc aaccttggcg ttccctgggt 120
cattcttggg cactctgaaa ggagagctct gctgggagaa tcaaatgagt ttgttgagga 180
caaggttgct tttgctctgt ctcagggaact aaaggtcatt gcatgtgttg gtgagaccct 240
tgaggagagg gaggtggtt caaccatgga tgttggtgct gcacaaacaa aagcaattgc 300
tgagaagatc aaggactgga gcaacgttgt tcttgcttat gaaccagtct gggctattgg 360
aactggcaaa gtcgccaccc cagc 384

<210> 35785
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-055-Q1-K1-H3

<400> 35785

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 catacctaata gaggatcatc aaagaaggct agctgatgag ttgagaacaa aggtcgcaga 180
 tgaatttatc aagaggcggg cagagactga atggtttggt gagggggact tcgacacgta 240
 cgtatctcag attaggaagc cacaagtctg gggaggcgag ccagagctgt tgatggcttc 300
 acatgttctt cagatgccaa tcaccgtcta catgcatgat aaagccgctg gtggtctaata 360
 agcgatcgcg aaatacggcc aagagcatgg gacggaaagc tccgtccaag ttctttacca 420
 tggntatggc cattatgatg cgc 443

<210> 35786
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-055-Q1-K1-H4

<400> 35786

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 aggtcaagga agcccatacc taatgaggat catcaaagaa ggctagctga cgagttgaga 180
 acaatggctc cagatgaatt tatctagagg cgggcagaga ctgaatgggt tgctgagggg 240
 gacttataca cgtacgtatc tcaaattatg aagccacatg tctgggttagg cgagccagat 300
 ctgttgatgg cttcacatgt tcttcagatg ccaatcaccg tctacatgca tgataaagcc 360
 gctggtggtc taatagcgat cgcgaaatac tgtcaagaac atgggacgga agctccccgta 420
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<210> 35787
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H5

<400> 35787

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gcgcctgtga tcatgtcgtc ttgctgcggc ggcaagtgcg ggtgcggctc cagctgctcc 120
tgccggcagcg gatgcaacgg ctgcggtatg taccctgacg tggagaccgc cgccaccagc 180
agcgtcaaga ccacggctct cgccgcgcgc accaccaagg ccagcgccgg cggcttcgag 240
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tgctcctgct gcagctgcaa ctgagccggc ccggctcggc gatggcgcac gagagtcgag 360
aggacgacga cgaggaggcg tataataaat ataatagcgg cgtccagtaa ataagatcct 420
gtcaactgca cccgccatta tccatggtcg ctgcg 454

<210> 35788
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H6

<400> 35788

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ctaacgacaa gagcatgctg tgaagcttgc ggtaattcga aagtagcttt cttagttgca 120
tgagtatttc tttcgttatg tatgtctgtt accctgtact tcgctgaaga gagcccacta 180
gatccaaaag atacacactg actatcagat tctgctactc tagtgaacgg ttctagaaat 240
gctgcccattg catcaaatga tccaaatgat gcaagatttt ctaatggccc atgtgggttta 300
aacaatggtg cggctaacaa caacactgac gaatttacca atgtgaattt caactcagag 360
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<210> 35789
<211> 413
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H7

<400> 35789

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ggctgttggt gctgaggtcc cggtgaccga ggtgccagcg gaggtcccgg cggcccaggt 180
ggccgaggcg cccaaggcga agaaggcgcc caaggagaag aaggcgcccta aggagaagaa 240
gctttccgcg gcgaagaagc cggcggcgca ccctccctac gctgagatga ttgtagaggc 300
gatcgtgcc ctcaaggaga ggaaggggtc gagctcgggt gccatcagca agtacgtcga 360
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<210> 35790

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H8

<400> 35790

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gctgcttgag tgacgcctag gtatctactc tggaacgtgt ccttgtaaata gccttaattgg 120
tcaatctgag ttttttttcc ccttgattat tcttcgctca tgtatgtttc caaattccaa 180
ggtagcggtc tgcgagagtt gatgattcta ccttgacata tcgaacccaa tttgtaaata 240
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agccccgta 309

<210> 35791

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H9

<400> 35791

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tgtgggggga gccggcgtct actgatgtct gcaggggttct gacatgcctg tttgagaaga 120
aactggagtt cgatcttgtc cgcacgcata cgttcaagac gcatcacaag cttcccgagt 180
tcacaggct tcgggatcct aatgggcaag tgaccttgaa gcacggcgac aaaactctcg 240
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gcctttacgg atccggcgct ctagaacggg cgtcgataga acagtggctt caggcggagg 360
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<210> 35792

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-A10

<400> 35792

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tcagatgaga aaagtgagat gcacgaactg tcaatggtag cactgtccgg ttgcatttgg 180
ttacaggctt ttgttgtgac aatggataca aactcattca cttgcccga natecttctc 240
atctggggaa actttgtggc cttctacatg atcaacttaa tactcagtac cgtcccaagt 300
ctccaactgt acacaatcac gttccgcctg tgtagccaac cttectactg natctccatg 360
gctc 364

<210> 35793

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-056-Q1-K1-A11

<400> 35793

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cggcctacag ccaagttcta tcacctgat ggcccanaac tcattgttttg ctaagtcttc 120
tccacctaag tcttcaaaaa ttgaacaag gccatattat cagataaaaag cagatgtagc 180